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FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

DELAWARE

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## EXPLANATION OF TERMS.

**Scope of census.**—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

**Period covered.**—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

**The establishment.**—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

**Classification by industries.**—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

**Selected industries.**—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

**Comparisons with previous censuses.**—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

**Influence of increased prices.**—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

**Persons engaged in the industry.**—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

(2)

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

**Prevailing hours of labor.**—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

**Capital.**—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

**Materials.**—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

**Rent and taxes.**—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

**Value of products.**—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

**Value added by manufacture.**—The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

**Cost of manufacture and profits.**—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

**Primary horsepower.**—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

**Fuel.**—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuels is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

# DELAWARE.

## GENERAL STATISTICS.

**General character of the state.**—Delaware is one of the original thirteen states. Its gross area is 2,370 square miles, of which 1,965 represent land surface. The inhabitants of the state in 1900 numbered 184,735; in 1910, 202,322; and in 1920, 223,003. Delaware ranked forty-sixth in population and forty-seventh in area among the states in 1920, and, with 113.5 inhabitants per square mile, tenth in density of population. The Delaware River and Atlantic Ocean, which form the eastern boundary of the state, afford excellent shipping facilities. In addition, the canal connections with Chesapeake Bay are an important factor in the transportation system of the state.

In 1920 Wilmington was the only city in the state having more than 10,000 inhabitants. The population of this city in 1920 was 110,168, 49.4 per cent of the total for the state, while of the value of manufactured products in 1919, 73.3 per cent was reported by the city.

**Importance and growth of manufactures** (Table 1).—The abnormal increases in wages, cost of materials, and the value of products being largely due to a change in industrial conditions produced by the World War, the statistics for these items presented in Table 1 can not be used to measure the growth of manufactures between the industrial censuses 1914 and 1919. However, a comparison of the number of persons engaged and the horsepower used in 1919 and 1914 shows a considerable increase in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the great increase shown in "rent and taxes."

**Statistics for the state, by counties** (Table 2).—Figures are not available for a comparison of county totals for other censuses with those for 1919. The statistics for this census, however, emphasize the importance of New Castle County, which reported 88.7 per cent of the total number of wage earners and 92.2 per cent of the total value of products for the state. Wilmington, the only city in Delaware with a population of more than 10,000, is located in this county.

**Principal industries, ranked by value of products** (Table 3).—The ranking of industries by value of products is often misleading as to their real importance from a manufacturing standpoint. The slaughtering and meat-packing industry, for instance, which ranked eighth in value of products, ranked seven-

teenth in number of wage earners and fifteenth in value added by manufacture.

**Persons engaged in manufacturing industries** (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 27.

**Average number of wage earners for selected industries** (Table 5).—The industries covered by this table are those which employed 100 or more wage earners in 1919 and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

**Average number of wage earners, by sex and age, and value of products, for Wilmington** (Table 6).—The proportion which females 16 years of age and over formed of the total number of wage earners in 1919 was less for Wilmington (12.7 per cent) than for the state (14.8 per cent). This was due to the fruit and vegetable canneries, which employed a large number of females, being located outside the city.

**Wage earners, by months** (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the conditions as they existed during the several census years. The variation in the number employed in August, September, and October is due to the seasonal character of the canning industry, which is important in the state.

**Wage earners, by months, for selected industries and Wilmington** (Table 8).—In addition to the number employed by months, similar data are given for males and females for all industries combined and for Wilmington, the only city in the state of 10,000 inhabitants or more, in 1920. The table also shows the number of female wage earners for industries in the state in which females predominated or which employed a large number of females.

**Prevailing hours of labor** (Table 9).—Since 1914 there has been a marked shortening of the working day in Delaware. In that year only 5.7 per cent of the wage earners were included in the group "48 and under," as against 55.5 per cent in 1919. On the other

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hand, in 1914 the "60" and "over 60" groups constituted 19.9 per cent of the total wage earners, as against 12.4 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 93 per cent were in the several classes having less than 101 wage earners, while such establishments employed but 22.5 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at \$100,000 to \$1,000,000 constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group with those of some other group to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for Wilmington (Table 13).—This table very strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The marked tendency toward the corporate form of ownership in

the state and Wilmington is shown in this table by the increased proportions which the average number of wage earners and value of products reported by this group formed of the total.

Manufactures in cities of 10,000 inhabitants or more (Table 15).—This table shows the increasing importance of the manufactures in Wilmington in 1919 as compared with prior censuses.

Principal industries in Wilmington, with per cent of total for the state (Table 16).—This table includes all industries in Wilmington having products of \$500,000 and over for which figures can be shown without disclosing the operations of individual establishments.

It is deemed of first importance to present the statistics for the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In so doing, however, it sometimes happens that quite important industries can not be shown in the city, since to do so might disclose the operations of establishments located outside, by the simple deduction of the totals shown for the industry in the city from that given in the detailed state table.

Number and horsepower of types of prime movers (Table 17).—The continued decrease in the proportion of owned horsepower and increase in that of rented (electric) power is noticeable. Although each kind of power shows an increase from 1914 to 1919, that for owned was 20.5 per cent, as compared with 97.8 per cent for rented.

Fuel consumed (Table 18).—This table shows the total quantities of the principal kinds of fuel used by manufacturing plants in the state in 1919 and 1914 and the city of Wilmington in 1919. It also gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	668	808	726	631	633	-17.3	11.3	15.1	-0.3
Persons engaged.....	32,972	25,533	23,984	20,567	( <sup>2</sup> )	29.1	6.5	16.6	.....
Proprietors and firm members.....	593	735	722	641	( <sup>2</sup> )	-19.3	1.8	12.6	.....
Salaried employees.....	3,344	2,643	2,024	1,451	1,189	26.5	30.6	39.5	22.0
Wage earners (average number).....	29,035	22,155	21,238	18,475	20,562	31.1	4.3	15.0	-10.1
Primary horsepower.....	85,150	64,403	52,779	49,490	40,134	32.2	22.0	6.6	23.3
Capital.....	\$148,207,598	\$69,323,927	\$60,905,671	\$50,925,630	\$38,791,402	113.8	13.8	19.6	31.3
Salaries and wages.....	44,974,387	14,781,728	12,617,925	9,787,454	9,703,966	204.3	17.1	28.9	-0.1
Salaries.....	7,709,068	3,399,568	2,322,329	1,629,261	1,336,968	126.8	46.4	42.5	21.9
Wages.....	37,265,319	11,382,160	10,295,596	8,158,203	8,467,003	227.4	10.6	26.2	-3.5
Paid for contract work.....	324,714	113,869	95,087	128,256	( <sup>2</sup> )	185.2	10.8	-25.9	.....
Rent and taxes.....	7,735,597	702,252	438,203	207,486	( <sup>2</sup> )	1,001.5	60.3	.....	0.6
Cost of materials.....	85,432,933	31,649,265	30,937,801	24,883,806	24,725,317	169.9	2.3	24.3	-0.4
Value of products.....	165,073,009	56,031,966	52,839,619	41,160,276	41,321,061	194.6	6.0	28.4	-1.9
Value added by manufacture.....	79,640,076	24,385,701	21,901,818	16,276,470	16,595,744	226.6	11.3	34.6	.....

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.



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TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	668	29,035	\$37,265,319	\$7,735,597	\$85,432,933	\$165,073,009	\$79,640,076	85,150
Kent.....	108	1,043	808,163	87,239	3,281,326	5,086,966	1,805,640	3,264
New Castle.....	357	25,751	35,019,339	7,558,541	77,725,287	152,272,331	74,547,044	74,818
Sussex.....	203	2,241	1,437,817	89,817	4,426,320	7,713,712	3,257,392	7,068

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	668	29,035	100.0	\$165,073	100.0	\$79,640	100.0	Printing and publishing, newspapers and periodicals.....	33	281	1.0	\$1,081	0.6	\$796	1.0
Leather, tanned, curried, and finished.....	18	4,251	14.6	50,138	30.4	21,797	27.4	Gas, illuminating and heating.....	7	145	0.5	1,053	0.6	604	0.8
Pulp goods.....	10	1,485	5.1	9,385	5.7	5,540	7.0	Pickles, preserves, and sauces.....	8	149	0.5	879	0.5	494	0.6
Cars and general shop construction and repairs by steam-railroad companies.....	5	3,223	11.1	7,687	4.6	4,771	6.0	Furnishing goods, men's.....	7	106	0.6	849	0.5	302	0.4
Iron and steel, steel works and rolling mills.....	6	1,009	3.5	7,115	4.3	3,253	4.1	Liquors, malt, including cereal beverages.....	4	96	0.3	813	0.5	586	0.7
Canning and preserving, fruits and vegetables.....	70	1,310	4.5	4,705	2.9	1,468	1.8	Confectionery and ice cream.....	24	98	0.3	666	0.4	236	0.3
Paper and wood pulp.....	5	683	2.4	4,573	2.8	1,344	1.7	Ice, manufactured.....	17	131	0.5	660	0.4	380	0.5
Foundry and machine-shop products.....	17	878	3.0	3,930	2.4	2,285	2.9	Fertilizers.....	7	41	0.1	630	0.4	120	0.2
Slaughtering and meat packing.....	15	117	0.4	3,285	2.0	426	0.5	Butter.....	6	32	0.1	570	0.3	54	0.1
Bread and other bakery products.....	47	312	1.1	2,504	1.5	887	1.1	Oil, not elsewhere specified.....	3	106	0.4	531	0.3	166	0.2
Flour-mill and gristmill products.....	56	95	0.3	2,056	1.2	390	0.5	Boxes, wooden packing, except cigar boxes.....	7	230	0.8	441	0.3	276	0.3
Tobacco, cigars.....	11	303	1.0	1,101	0.7	564	0.7	Printing and publishing, book and job.....	23	89	0.3	353	0.2	220	0.3
Lumber and timber products.....	75	420	1.5	1,091	0.7	625	0.8	Copper, tin, and sheet-iron work.....	11	62	0.2	255	0.2	161	0.2
								All other industries*.....	176	13,323	45.9	53,722	35.6	31,905	40.0

\*Among the industries for which statistics can not be shown separately without the possibility of disclosing individual operations are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: Belting and hose, rubber; cars, steam-railroad, not including the operations of railroad companies; dyeing and finishing textiles; machine tools; paints; plumbers' supplies; shipbuilding, steel; steam fittings and steam and hot-water heating apparatus; sulphuric, nitric, and mixed acids; and tobacco, snuff.

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	32,972	27,820	5,152	84.4	15.6	Clerks and other subordinate salaried employees.....	1919	2,196	1,388	808	63.2	36.8
	1914	25,533	20,813	4,720	81.5	18.5		1914	1,845	1,399	446	75.8	24.2
	1909	23,984	19,972	4,012	83.3	16.7		1909	1,358	1,111	247	81.8	18.2
Proprietors and officials.....	1919	1,741	1,688	53	97.0	3.0	Wage earners (average number).....	1919	29,035	24,744	4,291	85.2	14.8
	1914	1,533	1,493	40	97.4	2.6		1914	22,155	17,921	4,234	80.9	19.1
	1909	1,388	1,356	32	97.7	2.3		1909	21,238	17,505	3,733	82.4	17.6
Proprietors and firm members.....	1919	593	577	16	97.3	2.7	16 years of age and over.....	1919	28,781	24,626	4,155	85.6	14.4
	1914	735	711	24	96.7	3.3		1914	21,776	17,744	4,032	81.5	18.5
	1909	722	701	21	97.1	2.9		1909	20,709	17,205	3,504	83.1	16.9
Salaried officers of corporations.....	1919	325	312	13	96.0	4.0	Under 16 years of age.....	1919	254	118	136	46.5	53.5
	1914	311	300	11	96.5	3.5		1914	379	177	202	46.7	53.3
	1909	240	235	5	97.9	2.1		1909	529	300	229	56.7	43.3
Superintendents and managers.....	1919	823	799	24	97.1	2.9							
	1914	487	482	5	99.0	1.0							
	1909	426	420	6	98.6	1.4							

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TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Female.					Male.	Female.	
All industries.....	1919 1914 1909	29,035 22,155 21,238	84.8 80.1 81.0	14.3 18.2 16.5	0.9 1.7 2.5	Leather, tanned, curried, and finished.....	1919 1914	4,251 2,382	70.7 72.1	27.9 27.5	1.3 0.5
Boxes, wooden packing, except cigar boxes..	1919 1914	230 295	98.3 97.3	1.7 2.7	.....	Lumber and timber products.....	1919 1914	420 442	99.5 100.0	.....	0.5
Bread and other bakery products.....	1919 1914	312 257	83.0 85.6	15.1 13.2	1.9 1.2	Oil, not elsewhere specified.....	1919 1914	106 138	100.0 100.0	.....	.....
Canning and preserving, fruits and vege- tables.	1919 1914	1,310 1,800	44.8 33.7	55.0 59.2	0.2 7.1	Paper and wood pulp.....	1919 1914	683 501	91.2 88.2	8.8 11.7	..... 0.2
Cars and general shop construction and re- pairs by steam-railroad companies.	1919 1914	3,223 2,059	96.4 100.0	3.4	0.2	Pickles, preserves, and sauces.....	1919 1914	149 28	54.4 78.6	45.6 21.4	.....
Foundry and machine-shop products.....	1919 1914	878 1,888	97.4 98.2	2.4 0.7	0.2 1.1	Printing and publishing, newspapers and periodicals.	1919 1914	281 238	81.9 85.7	16.7 11.8	1.4 2.5
Furnishing goods, men's.....	1919 1914	166 234	11.4 10.3	76.5 88.9	12.0 0.8	Pulp goods.....	1919 1914	1,485 892	90.4 98.3	9.2 1.7	0.5
Gas, illuminating and heating.....	1919 1914	145 125	99.3 100.0	0.7	.....	Slaughtering and meat packing.....	1919 1914	117 125	96.6 100.0	3.4	.....
Ice, manufactured.....	1919 1914	131 151	100.0 99.3	0.7	.....	Tobacco, cigars.....	1919 1914	303 432	10.9 16.4	77.2 79.4	11.9 4.2
Iron and steel, steel works and rolling mills..	1919 1914	1,009 818	100.0 99.9	.....	0.1	All other industries.....	1919 1914	13,836 9,260	89.2 80.8	10.0 17.1	0.8 2.0

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS, FOR WILMINGTON: 1919, 1914, AND 1909.

	1919	1914	1909
Wage earners (average number).....	21,420	15,048	14,063
16 years of age and over.....	21,184	14,822	14,400
Males.....	18,472	12,399	12,403
Females.....	2,712	2,423	2,000
Under 16 years of age.....	236	226	194
Value of products.....	\$121,039,617	\$39,402,563	\$38,069,383

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	28,236	21,485	19,220	84.4	75.7	72.9	July.....	28,124	21,418	19,572	84.1	75.5	74.2
February.....	26,898	21,304	19,470	80.4	75.1	73.8	August.....	32,821	24,134	24,331	98.2	85.1	82.2
March.....	<b>25,599</b>	21,581	<i>19,168</i>	76.0	77.1	72.7	September.....	<b>33,438</b>	<b>28,364</b>	<b>26,376</b>	100.0	100.0	100.0
April.....	25,728	21,776	19,366	76.9	76.8	73.4	October.....	32,185	23,697	23,623	96.3	83.4	80.6
May.....	27,117	21,908	19,237	81.1	77.2	72.9	November.....	29,715	18,922	21,557	88.9	66.7	81.7
June.....	28,806	22,834	20,480	85.1	80.5	77.6	December.....	29,953	18,187	22,452	89.6	64.1	85.1

<sup>1</sup> The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by *italic* figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND WILMINGTON: 1919.

(The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.)

INDUSTRY AND CITY.	Aver- age num- ber em- ployed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent min- imum is of max- imum.
		Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.	
All industries.....	29,035	28,236	26,898	<b>25,599</b>	25,728	27,117	28,806	28,124	32,821	33,438	32,185	29,715	<b>29,953</b>	76.0
Males.....	24,744	24,827	23,654	<b>22,888</b>	22,556	23,592	24,544	24,221	26,634	26,652	26,513	25,528	<b>25,909</b>	83.6
Females.....	4,291	3,409	3,244	<i>5,111</i>	3,162	3,525	4,262	3,903	6,187	6,786	5,672	4,187	<i>4,044</i>	45.8
Boxes, wooden packing, except cigar boxes.....	230	239	239	252	<b>254</b>	239	224	235	229	<i>194</i>	198	213	244	76.4
Bread and other bakery products.....	312	312	300	309	<b>288</b>	297	309	316	332	330	321	314	316	86.7
Canning and preserving, fruits and vegetables.....	1,310	377	303	<b>253</b>	262	346	1,880	388	3,924	<b>4,324</b>	2,786	613	289	15.4
Cars and general shop construction and repairs by steam-railroad companies.....	3,223	3,352	3,134	<b>2,884</b>	2,923	3,048	2,960	3,203	3,184	3,416	3,520	3,451	<b>3,601</b>	80.1
Foundry and machine-shop products.....	878	841	809	784	775	791	806	890	931	1,010	1,010	1,022	1,106	69.7
Furnishing goods, men's.....	166	160	160	167	178	185	168	160	166	156	157	172	183	81.1
Gas, illuminating and heating.....	145	135	142	141	150	133	143	159	160	137	150	149	141	83.1
Ice, manufactured.....	131	76	76	76	118	153	178	202	213	176	135	90	80	35.2
Iron and steel, steel works and rolling mills.....	1,009	<b>1,746</b>	<b>1,478</b>	<b>1,025</b>	725	708	<i>664</i>	834	835	975	1,075	993	<b>1,090</b>	32.3

<sup>1</sup> Seasonal industry.

# MANUFACTURES—DELAWARE.

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TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND WILMINGTON: 1919—Continued.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Leather, tanned, curried, and finished.....	4,251	2,681	<b>2,900</b>	2,526	3,093	3,573	4,297	5,023	5,328	5,586	5,494	5,540	5,501	42.9
Lumber and timber products.....	420	423	479	559	431	374	317	331	344	323	410	471	573	55.3
Oil, not elsewhere specified.....	106	<i>6</i>	<i>6</i>	<i>6</i>	6	6	206	208	208	205	205	207	6	2.4
Paper and wood pulp.....	683	705	675	691	692	669	650	655	663	707	708	718	663	90.5
Pickles, preserves, and sauces.....	149	78	87	45	65	148	194	196	141	416	324	82	62	18.9
Printing and publishing, newspapers and periodicals.....	281	<i>261</i>	268	276	281	284	277	278	279	289	290	283	293	90.1
Pulp goods.....	1,485	1,403	1,401	<b>1,380</b>	1,388	1,423	1,441	1,449	1,502	1,533	1,592	1,634	1,668	83.1
Slaughtering and meat packing.....	117	116	114	112	107	99	104	110	121	115	122	139	139	71.2
Tobacco, cigars.....	303	278	302	295	285	276	<b>278</b>	311	320	320	336	340	354	60.2
All other industries.....	13,836	15,056	14,596	13,633	13,707	14,305	13,910	13,259	13,976	13,320	13,352	13,274	13,044	88.1
<i>Industries showing large proportion of females.</i>														
Canning and preserving, fruits and vegetables.....	722	184	151	88	88	126	724	108	2,314	2,744	1,741	293	167	13.1
Furnishing goods, men's.....	142	124	126	143	155	162	145	137	143	133	134	149	163	76.5
Leather, tanned, curried, and finished.....	1,212	853	787	767	889	1,060	1,234	1,383	1,446	1,524	1,538	1,556	1,567	47.3
Pulp goods.....	138	141	141	136	181	136	137	133	132	140	140	145	144	90.3
Tobacco, cigars.....	270	246	268	261	254	246	185	270	293	286	298	306	318	58.2
WILMINGTON.....	21,420	21,167	20,217	<b>19,420</b>	20,090	21,255	21,266	21,720	22,619	22,350	22,297	22,094	22,536	85.9
Males.....	18,583	18,649	17,822	<b>17,705</b>	17,685	18,588	18,465	18,670	19,457	19,164	19,175	18,911	19,305	87.9
Females.....	2,837	2,518	2,395	<b>2,316</b>	2,405	2,667	2,801	3,059	3,162	3,186	3,122	3,183	3,231	71.6

<sup>1</sup> Seasonal industry.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND WILMINGTON: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	29,035	8,288	1,863	5,968	3,214	3,842	2,274	2,490	1,096
	1914	22,155	( <sup>1</sup> )	( <sup>2</sup> )	1,263	2,050	8,444	6,000	4,033	385
	1909	21,238	( <sup>2</sup> )	( <sup>2</sup> )	960	736	6,905	5,855	5,824	958
Boxes, wooden packing, except cigar boxes.....	1919	230				12	122	155	41	
	1914	295				4	22	216	53	
Bread and other bakery products.....	1919	312	8	2	26	135	37	9	91	4
	1914	257	( <sup>2</sup> )	( <sup>2</sup> )	13	6	59	15	142	22
Canning and preserving, fruits and vegetables.....	1919	1,310	104	12	51	14	24	420	685	
	1914	1,800	( <sup>2</sup> )	( <sup>2</sup> )	166	90	256	263	991	29
Cars and general shop construction and repairs by steam-railroad companies.....	1919	3,223			2,916			307		
	1914	2,059	( <sup>2</sup> )	( <sup>2</sup> )	38		2,021			
Foundry and machine-shop products.....	1919	878	5		99	375	372	5	22	
	1914	1,888	( <sup>2</sup> )	( <sup>2</sup> )	341	80	1,421	43	3	
Furnishing goods, men's.....	1919	166	11			155				
	1914	234						234		
Gas, illuminating and heating.....	1919	145			1			130	8	6
	1914	125	( <sup>2</sup> )	( <sup>2</sup> )	1				118	3
Ice, manufactured.....	1919	131			4			8	71	44
	1914	151							24	127
Iron and steel, steel works and rolling mills.....	1919	1,009				295		270		444
	1914	818	( <sup>2</sup> )	( <sup>2</sup> )	337	242		239		
Leather, tanned, curried, and finished.....	1919	4,251	1,468	1,779	800	143		61		
	1914	2,382				1,093	36	324	929	
Lumber and timber products.....	1919	420	7	3	7	7	134	80	182	
	1914	442	( <sup>2</sup> )	( <sup>2</sup> )	12	59	41	182	148	
Oil, not elsewhere specified.....	1919	106	6						100	
	1914	138				4	1		133	
Paper and wood pulp.....	1919	683			100			2		581
	1914	591						3	474	114
Pickles, preserves, and sauces.....	1919	140	10		4	12		8	115	
	1914	28							28	
Printing and publishing, newspapers and periodicals.....	1919	281	4		256	6	6	8	1	
	1914	238	( <sup>2</sup> )	( <sup>2</sup> )	120	77	15	21	5	
Pulp goods.....	1919	1,485				369	934	182		
	1914	892					299	474	119	
Slaughtering and meat packing.....	1919	117	4			42	3	60	4	4
	1914	125					4	46	71	4
Tobacco, cigars.....	1919	303	3	19	9		73	199		
	1914	432	( <sup>2</sup> )	( <sup>2</sup> )	15	107	71	237	2	
All other industries.....	1919	13,836	6,658	48	1,695	1,649	2,120	407	1,237	13
	1914	9,260	( <sup>2</sup> )	( <sup>2</sup> )	220	288	4,195	3,698	793	66
WILMINGTON.....	1919	21,420	7,897	1,820	5,501	1,245	2,434	1,016	1,046	461
	1914	15,048	( <sup>2</sup> )	( <sup>2</sup> )	882	1,445	7,311	3,432	1,855	123

<sup>1</sup> Includes 48 and under for 1914 and 1909.

<sup>2</sup> Corresponding figures not available.

## MANUFACTURES—DELAWARE.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND WILMINGTON: 1919.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries.....	668	29,035	67	338	776	126	1,458	58	1,882	32	2,404	20	4,416	8	2,524	5	3,410	5	12,165
Boxes, wooden packing, except cigar boxes..	7	230		1	1	1	12	3	95	2	122								
Bread and other bakery products.....	47	312	8	31	66	4	34	2	61	2	151								
Canning and preserving, fruits and vegetables.	70	1,310	1	18	65	39	519	7	187	3	217	2	322						
Cars and general shop construction and repairs by steam-railroad companies.....	5	3,223						2	83	1	58	1	167					1	2,915
Foundry and machine-shop products.....	17	878	2	6	19	2	33	1	25	4	265	1	215	1	321				
Furnishing goods, men's.....	7	166				3	38	3	70	1	52								
Gas, illuminating and heating.....	7	145		5	9	1	6					1	130						
Ice, manufactured.....	17	131		14	37	2	24			1	70								
Iron and steel, steel works and rolling mills...	6	1,009						1	40	1	80	3	445	1	444				
Leather, tanned, curried, and finished.....	18	4,251				3	25	4	139	6	476	1	108	1	377	2	1,347	1	1,779
Lumber and timber products.....	75	420	1	57	95	14	147	2	48			1	130						
Oil, not elsewhere specified.....	3	106		2	6					1	100								
Paper and wood pulp.....	5	683		1	2					1	100	2	297	1	284				
Pickles, preserves, and sauces.....	8	149		4	12	3	27					1	110						
Printing and publishing, newspapers and periodicals.....	33	281	8	16	39	4	20	4	153	1	60								
Pulp goods.....	10	1,485				3	46					5	803	2	546				
Slaughtering and meat packing.....	15	117	1	12	25			1	33	1	59								
Tobacco, cigars.....	11	303	3	5	12	1	19			1	73	1	199						
All other industries.....	307	13,836	43	166	388	40	499	28	942	6	521	10	1,400	2	552	3	2,063	3	7,471
WILMINGTON.....	262	21,420	24	125	322	40	453	24	824	22	1,610	13	1,915	5	1,533	4	2,598	5	12,165

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	668	808	726	29,035	22,155	21,238	\$165,073,009	\$56,034,966	\$52,839,010	\$79,040,076	\$24,385,701	\$21,901,818
Less than \$5,000.....	123	251	213	125	462	479	333,100	610,251	559,530	185,821	367,387	335,302
\$5,000 to \$20,000.....	228	298	258	736	1,782	1,901	2,472,718	2,661,338	2,748,180	1,158,042	1,358,353	1,340,466
\$20,000 to \$100,000.....	183	170	170	1,902	2,910	3,298	8,099,775	7,000,219	6,981,337	3,175,441	2,545,860	2,674,038
\$100,000 to \$500,000.....	78	65	78	3,475	0,953	8,506	17,672,745	16,345,022	25,657,760	8,004,438	12,071,786	10,076,057
\$500,000 to \$1,000,000.....	26	16	.....	2,984	.....	.....	19,385,327	10,962,228	.....	8,469,910	.....	.....
\$1,000,000 and over.....	30	8	7	19,813	7,048	6,904	117,109,344	18,155,908	10,892,803	58,645,824	8,042,316	7,469,955
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	18.4	31.1	29.3	0.4	2.1	2.3	0.2	1.1	1.1	0.2	1.5	1.5
\$5,000 to \$20,000.....	34.1	36.9	35.6	2.5	8.0	9.0	1.5	5.3	5.2	1.5	5.6	6.1
\$20,000 to \$100,000.....	27.4	21.0	28.4	6.6	13.1	15.5	4.9	12.5	13.2	4.0	10.4	12.2
\$100,000 to \$500,000.....	11.7	8.0	10.7	12.0	44.9	40.3	10.7	26.2	48.6	10.1	49.5	46.0
\$500,000 to \$1,000,000.....	3.9	2.0	.....	10.3	.....	.....	11.7	19.0	.....	10.6	.....	.....
\$1,000,000 and over.....	4.5	1.0	1.0	68.2	31.8	32.0	70.9	32.4	32.0	73.6	33.0	34.1

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TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914			1919	1914			1919	1914			1919	1914		
			1919	1914			1919	1914			1919	1914			1919	1914
BREAD AND OTHER BAKERY PRODUCTS.....	47	67	100.0	100.0	312	257	100.0	100.0	\$2,501,100	\$953,036	100.0	100.0	\$887,086	\$332,413	100.0	100.0
Less than \$5,000.....	5	22	10.6	32.8		14		5.4	8,134	54,434	0.3	5.7	2,828	22,832	0.3	6.9
\$5,000 to \$20,000.....	23	32	48.9	47.8	36	90	11.5	35.0	298,575	276,212	11.9	29.0	105,100	108,748	11.8	32.7
\$20,000 to \$100,000.....	15	13	31.9	19.4	64	153	20.5	59.5	573,450	1,623,290	22.9	65.3	231,725	1,200,833	26.1	60.4
\$100,000 and over.....	4		8.5		212		67.9		1,623,932		64.9		547,433		61.7	
CANNING AND PRESERVING, FRUITS AND VEGETABLES.....	70	94	100.0	100.0	1,310	1,800	100.0	100.0	4,705,378	3,164,348	100.0	100.0	1,468,179	919,251	100.0	100.0
Less than \$5,000.....	8	5	11.4	5.3	25	0	1.9	0.5	21,324	10,365	0.5	0.3	2,758	3,001	0.2	0.3
\$5,000 to \$20,000.....	23	43	32.9	45.7	197	383	15.0	21.3	272,057	535,832	5.8	16.9	56,705	130,213	3.9	14.2
\$20,000 to \$100,000.....	20	42	41.4	44.7	461	868	35.2	48.2	1,329,227	1,634,527	28.2	51.7	389,611	471,030	26.5	51.2
\$100,000 and over.....	10	4	14.3	4.3	627	540	47.9	30.0	3,082,770	983,624	65.5	31.1	1,021,561	315,007	69.8	34.3
FLOUR-MILL AND GRISTMILL PRODUCTS.....	56	60	100.0	100.0	95	127	100.0	100.0	2,055,735	1,483,410	100.0	100.0	390,843	280,810	100.0	100.0
Less than \$5,000.....	7	10	12.5	16.7		4		3.1	20,380	29,241	1.0	2.0	3,565	8,255	0.9	2.9
\$5,000 to \$20,000.....	21	29	37.5	48.3	11	37	11.6	29.1	232,113	320,256	11.3	21.6	45,734	44,657	11.7	15.9
\$20,000 to \$100,000.....	23	21	41.1	35.0	46	186	48.4	67.7	892,619	1,133,913	43.4	76.4	176,585	1,227,898	45.2	81.2
\$100,000 to \$500,000.....	5		8.9		38		40.0		910,623		44.3		164,459		42.1	
FOUNDRY AND MACHINE-SHOP PRODUCTS.....	17	30	100.0	100.0	878	1,888	100.0	100.0	3,920,938	3,712,775	100.0	100.0	2,281,094	2,043,643	100.0	100.0
Less than \$5,000.....	4	9	23.5	30.0	2	10	0.2	0.5	11,018	20,814	0.3	0.6	7,107	14,842	0.3	0.7
\$5,000 to \$20,000.....	3	5	17.6	16.7	13	16	1.5	0.8	40,685	37,570	1.0	1.0	26,520	27,593	1.2	1.4
\$20,000 to \$100,000.....	3	7	17.6	23.3	37	153	4.2	8.1	161,548	399,873	4.1	10.8	84,196	199,899	3.7	9.8
\$100,000 and over.....	7	9	41.2	30.0	826	1,700	94.1	90.5	3,716,692	3,254,518	94.6	87.6	2,167,171	1,801,309	94.8	88.1
LEATHER, TANNED, CURRIED, AND FINISHED.....	18	20	100.0	100.0	4,251	2,352	100.0	100.0	50,138,251	9,183,205	100.0	100.0	21,797,440	2,709,151	100.0	100.0
\$20,000 to \$100,000.....		16		30.0		68		2.9		231,912		2.6		85,671		3.2
\$100,000 to \$500,000.....	4	14	44.4	70.0	435	62,314	7.6	97.1	1,852,202	8,948,293	3.7	97.4	1,065,389	2,623,480	4.9	96.8
\$500,000 to \$1,000,000.....	1		22.2		226		5.3		2,683,892		5.4		1,101,029		5.1	
\$1,000,000 and over.....	6		33.3		3,700		87.1		45,602,157		91.0		19,627,422		90.0	
LUMBER AND TIMBER PRODUCTS.....	75	73	100.0	100.0	420	442	100.0	100.0	1,091,240	445,889	100.0	100.0	624,887	272,682	100.0	100.0
Less than \$5,000.....	28	47	37.3	64.4	28	153	6.7	34.6	75,230	108,819	6.9	24.0	49,654	74,400	7.9	27.3
\$5,000 to \$20,000.....	32	21	42.7	28.8	81	181	19.3	41.0	252,491	167,931	23.1	37.7	162,911	111,572	26.1	40.9
\$20,000 to \$100,000.....	15	5	20.0	6.8	311	108	74.0	24.4	763,519	171,136	70.0	38.4	412,292	86,710	66.0	31.8
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	33	34	100.0	100.0	281	238	100.0	100.0	1,080,600	451,108	100.0	100.0	795,730	311,056	100.0	100.0
Less than \$5,000.....	17	18	51.5	52.0	20	33	7.1	13.9	48,791	40,919	4.5	9.1	38,490	30,221	4.8	9.7
\$5,000 to \$20,000.....	8	12	24.2	35.2	25	58	8.9	24.4	68,311	106,178	6.3	23.5	47,834	86,014	6.0	27.7
\$20,000 to \$100,000.....	4	14	12.1	11.8	46	147	16.4	61.8	123,366	303,981	11.4	67.4	76,015	194,821	9.7	62.6
\$100,000 to \$500,000.....	4		12.1		190		67.6		840,132		77.7		632,491		79.5	

<sup>1</sup> Includes the group "\$100,000 to \$500,000."

<sup>2</sup> Loss.

<sup>3</sup> Includes the group "\$5,000 to \$20,000."

<sup>4</sup> Includes the groups "\$5,000 to \$20,000" and "\$20,000 to \$100,000."

<sup>5</sup> Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR WILMINGTON: 1919.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
WILMINGTON.....	262	21,420	100.0	\$121,039,617	100.0	\$60,552,173	100.0
Less than \$5,000.....	38	24	0.1	99,632	0.1	61,519	0.1
\$5,000 to \$20,000.....	76	187	0.9	866,353	0.7	480,219	0.8
\$20,000 to \$100,000.....	71	607	2.8	3,217,581	2.7	1,490,107	2.5
\$100,000 to \$500,000.....	44	2,006	9.8	11,527,656	9.5	5,745,278	9.5
\$500,000 to \$1,000,000.....	13	1,513	7.1	9,394,949	7.8	4,505,906	7.4
\$1,000,000 and over.....	20	16,993	79.3	95,933,446	79.3	48,260,144	79.7

## MANUFACTURES—DELAWARE.

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND WILMINGTON: 1919 AND 1914.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.	
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.			
All industries.....	1919	321	228	119	29,035	1,519	26,810	706	5.2	92.3	2.4	\$165,073,009	\$9,607,487	\$150,957,146	\$4,508,376	5.8	91.4	2.7				
	1914	439	240	129	22,155	2,274	18,298	1,583	10.3	82.6	7.1	50,034,966	5,525,459	45,743,406	4,760,101	9.9	81.6	8.5				
	1909	357	202	137	21,238	2,451	15,573	3,214	11.5	73.3	15.1	52,839,619	0,187,017	36,071,988	10,580,614	11.7	68.3	20.0				
Bread and other bakery products.	1919	37	5	5	312	85	219	8	27.2	70.2	2.6	2,504,100	671,914	1,687,262	144,924	26.8	67.4	5.8				
	1914	55	6	6	257	140	96	15	56.8	37.4	5.8	953,936	538,408	355,688	59,840	56.4	37.3	6.3				
Canning and preserving, fruits and vegetables.	1919	28	19	23	1,310	287	724	299	21.9	55.3	22.8	4,705,378	629,277	3,218,422	857,679	13.4	63.4	18.2				
	1914	34	27	33	1,800	377	1,010	413	20.9	50.1	22.9	3,104,348	632,901	1,825,402	705,985	20.0	57.7	22.3				
Flour-mill and gristmill products.	1919	39	4	13	95	44	20	22	46.3	30.5	23.2	2,055,735	1,079,019	550,124	426,592	52.5	26.8	20.8				
	1914	42	4	14	127	57	41	29	44.9	32.3	22.8	1,483,410	653,125	511,249	319,036	44.0	34.5	21.5				
Foundry and machine-shop products.	1919	5	12	.....	878	9	869	.....	1.0	99.0	.....	3,929,938	35,006	3,894,932	.....	0.9	99.1	.....				
	1914	10	19	1	1,888	13	1,875	.....	0.7	99.3	.....	3,712,775	25,814	3,686,961	.....	0.7	99.3	.....				
Leather, tanned, curried, and finished.	1919	.....	16	2	4,251	.....	4,251	.....	100.0	.....	.....	50,138,251	.....	50,138,251	.....	.....	100.0	.....				
	1914	3	13	4	2,382	201	1,570	611	8.4	65.9	25.7	9,183,205	502,798	5,835,910	2,844,497	5.5	63.5	31.0				
Lumber and timber products.	1919	49	6	20	420	134	212	74	31.9	50.5	17.6	1,091,240	507,606	399,615	184,019	46.5	36.6	16.9				
	1914	54	2	17	442	288	.....	154	65.2	.....	34.8	445,889	236,917	.....	158,972	64.3	.....	35.7				
Printing and publishing, newspapers and periodicals.	1919	14	13	6	281	37	239	5	13.2	85.1	1.8	1,080,600	102,864	950,185	27,551	9.5	87.9	2.5				
	1914	20	11	3	238	47	185	6	19.7	77.7	2.5	451,108	77,748	365,376	7,984	17.2	81.0	1.8				
WILMINGTON .....	1919	114	110	38	21,420	481	20,695	244	2.2	96.6	1.1	121,039,617	4,096,965	114,363,952	2,578,700	3.4	94.5	2.1				
	1914	160	120	30	15,048	911	13,397	740	6.1	89.0	4.9	39,402,563	2,910,264	33,279,093	3,213,206	7.4	84.5	8.2				

<sup>1</sup> Includes the group "All others."<sup>2</sup> Includes the group "Corporations."

TABLE 15.—MANUFACTURES IN CITIES OF 10,000 INHABITANTS OR MORE: 1920, 1915, AND 1910.

[Wilmington, only city in state having 10,000 inhabitants or more.]

	Cen- sus year.	Total.	LOCATION OF ESTABLISHMENTS.		PER CENT OF TOTAL.	
			Wilmington.	The state outside of Wilmington.	Wil- mington.	The state outside of Wil- mington.
Population <sup>1</sup> .....	1920	223,003	110,168	112,835	49.4	50.6
	1915	209,817	92,057	117,760	43.9	56.1
	1910	202,322	87,411	114,911	43.2	56.8
Number of establishments .....	1919	668	262	406	39.2	60.8
	1914	808	319	489	39.5	60.5
	1909	726	261	465	36.0	64.0
Average number of wage earners.....	1919	29,035	21,420	7,615	73.8	26.2
	1914	22,155	15,048	7,107	67.9	32.1
	1909	21,238	14,663	6,575	69.0	31.0
Value of products.....	1919	\$165,073,009	\$121,039,617	\$14,038,392	73.3	26.7
	1914	50,034,966	39,402,563	10,632,403	70.3	29.7
	1909	52,839,619	38,069,383	14,770,236	72.0	28.0
Value added by manufacture.....	1919	79,040,076	60,552,173	19,087,903	76.0	24.0
	1914	24,385,701	17,262,003	7,123,698	70.8	29.2
	1909	21,901,818	16,093,083	5,808,735	73.5	26.5

<sup>1</sup> Population of 1920 as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—PRINCIPAL INDUSTRIES IN WILMINGTON (THE ONLY CITY IN THE STATE HAVING 50,000 INHABITANTS OR MORE), WITH PER CENT OF TOTAL FOR STATE: 1919.

INDUSTRY.	VALUE OF PRODUCTS.				INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
Foundry and machine-shop products.....	\$3,814,188	97.1	\$617,913	19.3	Printing and publishing, newspapers and periodicals.....	896,249	82.9	550,974	150.6
Slaughtering and meat packing.....	3,003,696	91.4	1,438,618	91.9	Liquors, malt, including cereal beverages.	812,787	100.0	-152,569	-16.7
Bread and other bakery products.....	2,226,200	88.9	1,406,127	171.4	Confectionery and ice cream.....	556,954	83.6	321,958	137.0
Tobacco, cigars.....	1,101,497	100.0	( <sup>2</sup> )	.....					

<sup>1</sup> A minus sign (—) denotes decrease.<sup>2</sup> Figures not shown, to avoid disclosing individual operations.



# MANUFACTURES—DELAWARE.

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TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total.....	2,425	1,750	1,345	85,150	64,403	52,779	100.0	100.0	100.0
Owned.....	808	890	906	65,708	54,619	48,227	77.3	84.8	91.4
Steam.....	609	666	681	59,743	48,207	42,266	70.2	74.8	80.1
Engines.....	585	(2)	(2)	46,648	(2)	(2)	54.8		
Turbines.....	24	(2)	(2)	13,095	(2)	(2)	15.4		
Internal-combustion engines.....	91	117	78	1,607	1,905	796	1.9	3.0	1.5
Water.....	108	107	147	4,448	4,507	5,195	5.2	7.0	9.8
Water wheels and turbines.....	108	98	143	4,307	5,188	5,188	5.2	6.7	9.8
Water motors.....		9	4		200	12		0.3	(3)
Rented.....	1,617	860	439	19,352	9,784	4,552	22.7	15.2	8.6
Electric.....	1,617	860	439	19,307	9,705	4,502	22.7	15.1	8.5
Other.....				45	79	50	0.1	0.1	0.1
Electric.....	3,280	2,373	1,397	44,528	29,544	17,910	100.0	100.0	100.0
Rented.....	1,617	860	439	19,307	9,705	4,502	43.4	32.8	25.1
Generated by establishments reporting.....	1,663	1,513	958	25,221	19,839	13,408	56.6	67.2	74.9

1 Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. 2 Not reported separately. 3 Less than one-tenth of 1 per cent.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND WILMINGTON: 1910.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas, manufactured (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	38,185	507,354	15,712	194,122	2,324	80,062
Per cent of increase.....	42.8	53.3	9.9	202.5	(1)	100.4
Belting and hose, rubber.....	2,932	444	677	9,542	130	4,674
Bread and other bakery products.....	650	4,956			130	1,228
Brick and tile, sewer pipe and drain tile.....	150	7,628			77	
Canning and preserving, fruits and vegetables.....	644	26,558	144	11,173		
Cars and general shop construction and repairs by steam-railroad companies.....	3	14,168	243	2,437	10	
Cars, steam-railroad, not including operations of railroad companies.....						
Dyeing and finishing textiles.....		30,174				33,324
Foundry and machine-shop products.....	754	16,512	2,957	3,458	182	1,408
Gas, illuminating and heating.....	15,173	6,301		77,004	1	
Ice, manufactured.....	300	9,339	400	430	1	
Iron and steel, steel works and rolling mills.....	538	101,389	3,194	15,454	217	1
Leather, tanned, curried, and finished.....		20,939		5,131		337
Paints.....		7,830			12	
Paper and wood pulp.....		66,282		43,047		
Petroleum, refining.....						
Pulp goods.....	1,618	55,040	138			
Shipbuilding, steel.....		34,559	1,367	1,915	456	20,241
Smelting and refining, not from the ore.....	10,561	2,192				
Sulphuric, nitric, and mixed acids.....	142	50,191	5,088	9,585		
All other industries.....	4,720	37,802	1,504	3,508	1,071	9,840
WILMINGTON.....	32,330	249,075	7,438	102,465	940	78,626

1 Included in figures for fuel oils.

## SPECIAL STATISTICS.

**Leather, tanned, curried, and finished (Table 19).—** This table shows a great advance in the value of the leather products, which was due to the shortage and demand for leather incident to the emergency of war. "Leather, tanned, curried, and finished," continues to be the leading industry of the state, the 18 establishments reporting 30.4 per cent of the total value of products of all industries in the state in 1919. Upper leather, made chiefly of goatskins by the chrome process, remains the leading product. "All other leather," including fancy, patent, bookbinders', and belting leathers, formed 8.8 per cent of the total value of products for the industry in 1919, as compared with 5 per cent in 1914.

TABLE 19.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$50,138,251	\$9,183,205	\$12,079,225
Leather:			
Goat and kid skins—			
Number.....	12,962,006	6,722,261	11,035,292
Value.....	\$40,949,311	\$6,840,228	\$10,232,463
Sheep and lamb skins—			
Number.....	56,448	1,063,789	793,508
Value.....	\$150,528	\$963,458	\$675,986
All other, value.....	\$4,420,100	\$463,635	\$557,942
All other products, value.....	\$1,021,623	\$942,695	\$402,795
Work on materials for others, value.....	\$3,596,689	\$273,189	\$210,039

**Canning and preserving (Table 20).—** "Canning and preserving, fruits and vegetables," ranked by value of

products, was the fifth industry in the state, both in 1919 and 1914, but there was great variation in the quantities and values of the several classes of products that composed it. Notwithstanding a decrease of 24 in the number of establishments and a large decrease in the quantity of vegetables canned, the total value of the products of the canning industry shows an increase of 48.2 per cent in 1919 over 1914, due to the increase in price of canned goods during the five-year period. The majority of the establishments that discontinued business in 1919 were engaged primarily in the canning of tomatoes. The quantity and value of this commodity decreased 73.8 per cent and 43.5 per cent, respectively. There was a decided shortage in the tomato crop in 1919 and high prices prevailed. The number of establishments engaged in making pickles, preserves, and sauces increased from three in 1914 to eight in 1919, and the value of products shows a growth of 372.1 per cent. Statistics for canning and preserving fish were excluded for 1919 to avoid disclosing the operations of the single establishment engaged in the industry.

TABLE 20.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$5,584,357	\$3,361,008	\$2,105,945
Canning and preserving, fruits and vegetables.....	\$1,705,378	\$3,174,821	\$2,105,945
Pickles, preserves, and sauces.....	\$878,979	\$186,187	.....
Canned vegetables, total:			
Cases.....	866,723	1,880,850	1,585,800
Value.....	\$2,470,703	\$2,703,780	\$2,049,074
Tomatoes—			
Cases.....	348,109	1,326,275	1,262,635
Value.....	\$1,110,894	\$1,965,958	\$1,005,069
Pears—			
Cases.....	222,832	178,810	190,261
Value.....	\$564,208	\$237,853	\$249,357
Corn—			
Cases.....	108,728	215,280	94,607
Value.....	\$479,594	\$251,758	\$138,739
Sweet potatoes—			
Cases.....	74,954	39,093	20,633
Value.....	\$258,790	\$59,458	\$28,675
Pumpkins—			
Cases.....	.....	6,670	3,145
Value.....	(2)	\$7,626	\$4,546
All other canned vegetables—			
Cases.....	22,100	123,731	13,989
Value.....	\$57,217	\$211,127	\$22,688
All other products, including pickles, preserves, sauces, cured fish, and canned fruits, value.....	\$3,113,654	\$597,228	\$56,871

<sup>1</sup> Includes "Canning and preserving, fish."

<sup>2</sup> Included with "All other canned vegetables" to avoid disclosure of the operations of individual establishments.

Flour-mill and gristmill products (Table 21).—Notwithstanding the fact that there was a decrease in quantity in each of the several classes of products in 1919, compared with 1914, the total value of all

products shows an increase of 38.6 per cent, due to the high prices ruling in 1919.

TABLE 21.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$2,055,735	\$1,483,410	\$1,751,533
Wheat flour:			
Barrels.....	110,494	157,852	174,224
Value.....	\$1,288,733	\$797,025	\$1,011,511
Buckwheat flour:			
Pounds.....	176,194	408,660	672,675
Value.....	\$9,310	\$11,969	\$19,272
Corn meal and corn flour:			
Barrels.....	53,479	67,790	77,399
Value.....	\$401,089	\$220,967	\$239,772
Hominy and grits:			
Pounds.....	.....	1,396,527	1,671,225
Value.....	.....	\$24,792	\$30,286
Bran and middlings:			
Tons.....	5,039	7,754	.....
Value.....	\$288,592	\$222,506	.....
Feed and offal:			
Tons.....	1,166	5,892	15,944
Value.....	\$73,011	\$184,339	\$450,261
All other products, value.....	.....	\$12,212	\$431

Power laundries (Table 22).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 22, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 22.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of in- crease, <sup>1</sup> 1914- 1919.
	1919	1914	
Number of establishments.....	6	12	.....
Persons engaged.....	300	369	-18.7
Proprietors and firm members.....	10	16	.....
Salaried employees.....	6	27	.....
Wage earners (average number).....	284	326	-12.9
Primary horsepower.....	334	335	-0.3
Capital.....	\$375,386	\$253,264	48.2
Salaries and wages.....	234,919	118,474	98.3
Salaries.....	13,635	26,296	-47.0
Wages.....	220,984	92,178	139.7
Paid for contract work.....	.....	410	.....
Rent and taxes.....	4,805	5,293	-8.1
Cost of materials.....	95,822	42,524	125.3
Amount received for work done.....	444,095	242,897	82.8

<sup>1</sup> A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 23).—This table shows, for 1919, statistics for dyeing and cleaning establishments that were operated by mechanical power. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing

industries as distinguished from the hand trades, household industries, etc.

TABLE 23.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	3
Persons engaged.....	33
Proprietors and firm members.....	1
Salaried employees.....	9
Wage earners (average number).....	23
Primary horsepower.....	31
Capital.....	\$97,632
Salaries and wages.....	30,610
Salaries.....	11,797
Wages.....	18,813
Paid for contract work.....	208
Rent and taxes.....	2,448
Cost of materials.....	17,968
Amount received for work done.....	73,834

Custom sawmills and custom gristmills (Tables 24 and 25).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 24 and 25, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed and that for custom gristmills the selling value of all grain milled.

TABLE 24.—CUSTOM SAWMILLS: 1919 AND 1909.

	1919	1909	Per cent of increase. <sup>1</sup>
Number of establishments.....	6	21	.....
Persons engaged.....	20	93	.....
Proprietors and firm members.....	6	26	.....
Wage earners (average number).....	14	67	.....
Primary horsepower.....	165	415	—60.2
Capital.....	\$5,450	\$26,775	—79.6
Wages.....	10,540	11,371	—7.3
Rent and taxes.....	128	(?)	.....
Cost of materials.....	525	845	—37.9
Value of products.....	20,231	25,605	—21.0

<sup>1</sup> A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

<sup>2</sup> Figures not available.

TABLE 25.—CUSTOM GRISTMILLS: 1919 AND 1909.

	1919	1909	Per cent of increase. <sup>1</sup>
Number of establishments.....	5	6	.....
Persons engaged.....	6	6	.....
Proprietors and firm members.....	5	6	.....
Wage earners (average number).....	1	.....	.....
Primary horsepower.....	148	145	2.1
Capital.....	\$9,250	\$6,400	44.5
Wages.....	900	.....	.....
Rent and taxes.....	732	(?)	.....
Cost of materials.....	* 29,583	* 15,735	88.0
Value of products.....	* 36,595	* 19,693	85.8

<sup>1</sup> Percentages are omitted where base is less than 100.

<sup>2</sup> Figures not available.

<sup>3</sup> Includes estimate of all grain ground.

## MANUFACTURES—DELAWARE.

## GENERAL TABLES.

Table 26 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state and Wilmington, the only

city in the state having more than 10,000 inhabitants. Table 27 presents, for 1919, for the state as a whole and Wilmington, statistics in detail for each industry for which figures can be shown without the disclosure of individual operations.

TABLE 26.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	668	29,035	85,150	\$37,265	\$85,433	\$165,073	Grease and tallow, not includ- ing lubricating greases.	1919	3	30	100	\$31	\$71	\$144
	1914	808	22,155	64,403	11,382	21,649	50,035		1914	3	22	23	13	42	62
	1909	726	21,238	52,779	10,296	30,938	52,840		1909	4	36	(*)	21	97	153
Baskets, and rattan and willow ware.	1919	3	36	35	19	28	53	Ice, manufactured.....	1919	17	131	1,597	194	279	660
	1914	6	347	205	94	132	295		1914	18	151	1,694	93	59	294
	1909	10	420	540	92	109	295		1909	15	71	1,028	31	40	153
Bread and other bakery prod- ucts.	1919	47	312	414	318	1,617	2,504	Iron and steel, steel works and rolling mills.	1919	6	1,009	13,442	1,527	3,862	7,116
	1914	67	257	283	140	622	954		1914	5	818	3,545	454	932	1,669
	1909	62	226	130	118	448	750		1909	5	710	4,912	416	1,059	1,715
Brick and tile, sewer pipe, and drain tile.	1919	11	85	661	98	73	223	Leather, tanned, curried, and finished.	1919	18	4,251	7,977	5,812	28,341	50,138
	1914	13	159	767	74	47	173		1914	20	2,382	5,163	1,187	6,474	9,183
	1909	23	300	834	116	55	329		1909	10	3,045	4,417	1,367	8,147	12,079
Butter.....	1919	6	32	186	29	516	570	Liquors, malt, including cereal beverages.	1919	4	96	813	121	227	813
	1914	10	45	257	28	183	242		1914	3	118	630	107	261	975
	1909	10	32	204	14	211	264		1909	5	107	463	84	241	791
Canning and preserving <sup>1</sup> .....	1919	78	1,459	2,967	823	3,622	5,584	Lumber and timber products <sup>4</sup> ..	1919	90	701	3,393	477	731	1,716
	1914	100	1,831	3,003	470	2,358	3,361		1914	102	786	3,237	253	345	829
	1909	77	1,369	1,725	273	1,533	2,106		1909	116	1,174	3,707	330	608	1,312
Carriages and wagons, including repairs.	1919	5	15	29	22	23	72	Marble and stone work.....	1919	14	43	71	45	133	230
	1914	28	118	181	67	68	197		1914	13	51	62	31	54	113
	1909								1909	7	42	51	27	35	86
Cars and general shop construc- tion and repairs by steam- railroad companies.	1919	5	3,223	2,515	4,108	2,916	7,087	Mineral and soda waters.....	1919	12	20	55	32	115	220
	1914	3	2,059	2,820	1,524	1,704	3,551		1914	14	31	27	17	47	92
	1909	3	1,525	1,835	1,147	1,943	3,251		1909	10	27	(*)	16	32	86
Confectionery and ice cream....	1919	24	98	168	83	430	666	Oil, not elsewhere specified.....	1919	3	106	129	59	375	531
	1914	28	70	139	30	169	285		1914	5	138	745	40	338	603
Copper, tin, and sheet-iron work	1919	11	62	8	83	95	255	Paper and wood pulp.....	1919	5	683	5,120	793	3,230	4,572
	1914	7	42	12	28	35	89		1914	7	591	5,954	327	1,753	2,484
	1909	4	21	(*)	16	17	45		1909	6	540	4,318	310	1,587	2,292
Fertilizers.....	1919	7	41	225	28	510	630	Printing and publishing.....	1919	56	370	457	390	417	1,433
	1914	9	64	295	28	382	510		1914	54	360	420	198	211	676
	1909	10	134	805	52	452	860		1909	48	288	305	129	138	480
Flour-mill and gristmill prod- ucts.	1919	56	95	2,736	95	1,665	2,056	Pulp goods.....	1919	10	1,485	5,154	1,752	3,346	9,385
	1914	60	127	3,287	69	1,203	1,483		1914	8	892	3,402	480	1,028	2,145
	1909	65	139	3,349	57	1,500	1,752		1909	4	359	1,087	175	581	1,032
Foundry and machine-shop products. <sup>3</sup>	1919	42	1,698	5,143	2,490	4,180	9,931	Shirts.....	1919	4	86	25	32	69	126
	1914	51	2,522	8,527	1,505	3,142	6,120		1914	9	244	59	51	14	91
	1909	37	2,210	4,270	1,247	2,402	4,781		1909	8	291	(*)	67	96	209
Furnishing goods, men's.....	1919	7	166	67	179	547	849	Slaughtering and meat packing.	1919	15	117	385	128	2,859	3,285
	1914	5	234	79	55	210	324		1914	19	125	504	82	1,490	1,711
	1909								1909	9	82	212	53	1,231	1,372
Gas, illuminating and heating..	1919	7	145	167	186	449	1,053	All other industries.....	1919	102	12,431	31,051	17,297	24,207	52,521
	1914	8	125	158	75	205	570		1914	133	7,449	18,860	3,866	8,072	16,954
	1909	5	128	333	76	109	364		1909	167	7,956	18,194	4,062	8,238	16,283

<sup>1</sup> Includes "canning and preserving, fish," "canning and preserving, fruits and vegetables," and "pickles, preserves, and sauces," except that in 1919 "canning and preserving, fish" is not included.

<sup>2</sup> Figures not available.

<sup>3</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "machine tools"; "plumbers' supplies"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts."

<sup>4</sup> Includes "boxes, wooden packing," and "lumber, planing-mill products, not including planing mills connected with sawmills."

# MANUFACTURES—DELAWARE.

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TABLE 26.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES: 1919, 1914, AND 1909—Continued.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.	Expressed in thousands.	Expressed in thousands.								
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
WILMINGTON.....	1919	262	21,420	47,350	\$29,347	\$60,487	\$121,040	WILMINGTON—Continued.							
All industries.	1914	319	15,048	38,974	8,674	22,141	39,403	Marble and stone work.....	1919	7	23	56	\$24	\$63	\$112
	1914	319	15,048	38,974	8,674	22,141	39,403		1914	6	32	45	20	26	63
	1909	261	14,663	29,282	7,937	21,976	38,069		1909	4	35	( <sup>2</sup> )	24	24	64
Bread and other bakery prod- ucts.	1919	32	283	351	290	1,416	2,228	Mineral and soda waters.....	1919	5	20	24	23	92	170
	1914	43	214	213	121	542	820		1914	10	25	25	15	43	77
	1909	36	198	106	104	380	629	Printing and publishing.....	1919	31	295	348	333	354	1,230
Confectionery and ice cream....	1919	16	85	82	75	357	557		1914	27	279	315	161	179	562
	1914	16	56	90	25	145	235		1909	22	210	214	90	112	373
Foundry and machine-shop products. <sup>1</sup>	1919	28	1,527	4,184	2,280	3,746	9,110	Slaughtering and meat packing.	1919	6	109	329	114	2,622	3,004
	1914	42	2,000	7,644	1,195	1,908	4,249		1914	9	116	436	78	1,370	1,565
	1909	27	1,766	.....	992	1,500	3,310	All other industries.....	1919	129	18,960	41,036	26,068	51,576	103,735
Liquors, malt, including cereal beverages.	1919	4	96	813	121	227	813		1914	156	12,184	29,416	6,929	17,642	30,795
	1914	3	118	630	107	261	975		1909	168	12,436	28,878	6,704	19,952	33,663
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	4	22	136	19	34	74								
	1914	7	24	160	23	25	62								
	1909	4	18	84	14	8	30								

<sup>1</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "machine tools"; "plumbers' supplies"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts."  
<sup>2</sup> Figures not available.

## MANUFACTURES—DELAWARE.

TABLE 27.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Average number.	Wage earners.		Total.	16 and over.		Under 16.		
					Male.	Female.		Maximum month.	Minimum month.		Male.	Female.	Male.		Female.

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

																Dollars.
1	All industries.....	668	32,972	593	1,148	1,388	808	20,035	Se 33,438	Mh 25,399	(*)	(*)	(*)	(*)	(*)	148,207,598
2	Artificial stone products.....	3	6	2	—	—	—	11	Oc 4	My 2	8	8	—	—	—	6,350
3	Automobile bodies and parts.....	5	22	8	3	—	—	11	Se 4	Ja 10	11	11	—	—	—	75,006
4	Automobile repairing.....	15	61	13	3	—	—	41	Je 46	De 39	37	37	—	—	—	92,010
5	Baskets, and rattan and willow ware.	3	39	3	—	—	—	36	Ap 43	Ja 7	47	47	—	—	—	24,250
6	Boxes, wooden packing, except cigar boxes.	7	254	2	15	5	2	230	Ap 254	Se 194	247	243	4	—	—	345,289
7	Brass and bronze products.....	4	32	3	4	1	1	23	Ja 37	Se 15	18	18	—	—	—	116,105
8	Bread and other bakery products.....	47	415	49	25	12	17	312	Au 332	Ap 283	319	266	47	4	2	1,130,785
9	Brick and tile, sewer pipe and drain tile.	11	101	9	6	1	—	85	Je 123	Ja 40	124	124	—	—	—	395,700
10	Butter.....	6	45	—	8	1	4	—	Au 37	Ja 27	30	29	—	—	—	190,112
11	Canning and preserving, fruits and vegetables.	70	1,487	83	68	15	11	1,310	—	—	5,244	2,137	3,100	5	2	4,692,668
12	Canned vegetables.....	51	959	55	46	11	8	839	Se 2,951	Jy 120	3,674	1,519	2,148	5	2	2,829,278
13	Canned fruits.....	19	528	28	22	4	3	471	Se 1,373	De 40	1,570	618	952	—	—	1,893,390
14	Carriages and wagons, including repairs.	5	24	5	4	—	—	15	(*)	(*)	16	16	—	—	—	101,602
15	Cars and general shop construction and repairs by steam-railroad companies.	5	3,485	—	15	208	30	3,223	De 3,601	Mh 2,384	3,599	3,522	71	6	—	2,985,731
16	Confectionery and ice cream.....	24	130	25	6	1	—	98	—	—	103	57	45	1	—	425,326
17	Confectionery.....	6	39	6	3	1	—	29	De 34	Oc 25	34	14	19	1	—	85,109
18	Ice cream.....	18	91	19	3	—	—	69	Je 77	De 55	69	43	26	—	—	340,217
19	Copper, tin, and sheet-iron work.....	11	87	12	8	—	5	62	Ja 79	Mh 49	67	66	1	—	—	128,638
20	Fertilizers.....	7	68	9	12	4	2	41	Mh 60	Ja 18	51	51	—	—	—	452,810
21	Flour-mill and gristmill products.....	56	176	71	2	6	2	95	Mh 97	Je 93	98	98	—	—	—	988,397
22	Foundry and machine-shop products.	17	1,007	5	41	48	35	878	De 1,108	Je 771	1,103	1,072	29	2	—	4,874,291
23	Furnishing goods, men's.....	7	197	2	23	4	2	166	My 185	Ja 150	182	23	137	6	16	4,843,107
24	Gas, illuminating and heating.....	7	219	1	21	33	19	145	Au 160	My 133	141	140	1	—	—	7,728,319
25	Grease and tallow, not including lubricating greases.	3	37	3	2	1	1	30	Se 40	De 23	24	24	—	—	—	106,613
26	Ice, manufactured.....	17	165	10	16	1	7	131	Au 213	Ja 75	109	109	—	—	—	1,115,979
27	Iron and steel, steel works and rolling mills.	6	1,184	—	60	81	34	1,009	Ja 1,746	Je 504	1,209	1,209	—	—	—	13,464,780
28	Leather, tanned, curried, and finished.	18	4,458	5	78	69	55	4,251	Se 5,506	Fe 2,390	5,521	3,914	1,533	42	32	34,982,894
29	Liquors, malt, including cereal beverages.	4	127	1	20	8	2	96	Jy 120	De 64	64	64	—	—	—	2,537,772
30	Lumber and timber products.....	75	530	94	8	6	2	420	De 573	Je 317	691	688	—	3	—	581,161
31	Lumber, planing-mill products, not including planing mills connected with sawmills.	8	61	4	4	1	1	51	No 59	My 26	57	57	—	—	—	109,120
32	Marble and stone work.....	14	66	15	7	—	1	43	My 47	Ja 33	38	38	—	—	—	155,724
33	Mineral and soda waters: Mineral and carbonated waters.	12	47	15	1	1	1	29	Je 37	De 22	29	20	—	—	—	216,496
34	Oil, not elsewhere specified: Animal oils.....	3	117	—	8	1	2	106	Jy 208	Ja 5	206	206	—	—	—	470,538
35	Paper and wood pulp.....	5	727	1	13	23	7	683	No 718	Je 660	663	602	61	—	—	3,802,694
36	Pickles, preserves, and sauces.....	8	191	6	8	19	9	149	Se 416	Fe 37	185	132	53	—	—	1,565,724
37	Printing and publishing, job printing.	23	135	25	14	1	6	89	Se 93	Je 85	94	51	39	4	—	330,776
38	Printing and publishing, newspapers and periodicals.	33	398	24	26	34	33	281	—	—	294	242	48	4	—	1,106,029
39	Printing and publishing.....	5	195	2	13	26	23	131	Au 186	Ja 125	135	115	18	2	—	313,295
40	Printing, publishing, and job printing.	24	200	19	13	8	10	150	No 158	Ja 139	159	127	30	2	—	851,240
41	Publishing, without printing.....	4	3	—	—	—	—	—	—	—	—	—	—	—	—	494
42	Pulp goods.....	10	1,739	—	87	104	93	1,438	De 1,668	Mh 1,386	1,666	1,515	143	6	2	6,478,482
43	Saddlery and harness.....	3	7	3	—	—	—	4	Ja 5	Jy 3	3	3	—	—	—	22,885
44	Shirts.....	4	95	4	5	—	—	86	De 112	Ap 40	114	29	84	—	1	84,400
45	Slaughtering and meat packing.....	15	169	15	15	12	10	117	No 139	My 99	140	137	3	—	—	764,900
46	Tobacco, cigars.....	11	334	8	7	11	5	303	De 354	Je 213	355	36	277	—	42	1,164,087
47	All other industries*.....	86	14,530	58	535	673	399	12,865	—	—	—	—	—	—	—	53,881,238

\*All other industries embrace—  
 Awnings, tents, and sails..... 1  
 Belting and hose, rubber..... 1  
 Belting, leather..... 1  
 Bookbinding and blank-book making..... 2  
 Boxes, paper, set-up paper boxes..... 1  
 Brooms, from broom corn..... 1  
 Brushes, other than toilet..... 2  
 Canning and preserving, fish..... 1

Cars and general shop construction and repairs by electric-railroad companies..... 1  
 Cars, steam-railroad, not including operations of railroad companies..... 2  
 Charcoal, not including production in the lumber and wood distillation industries..... 1  
 Cheese..... 1  
 Chewing gum..... 1

Clothing, men's..... 1  
 Clothing, women's..... 2  
 Coffee, roasting and grinding..... 1  
 Dental goods, other than teeth..... 2  
 Dyeing and finishing textiles..... 2  
 Electroplating..... 1  
 Engines, steam, gas, and water..... 1  
 Engraving and diesinking..... 1  
 Explosives..... 1  
 Fire extinguishers, chemical..... 1

Fireworks..... 1  
 Food preparations, not elsewhere specified..... 4  
 Hats and caps, other than felt, straw, and wool..... 1  
 Jewelry..... 1  
 Jute goods..... 1  
 Knit goods..... 2  
 Lubricating greases..... 1  
 Machine tools..... 1

1 Includes water wheels and turbines (irrespective of ownership of water supply).

\* Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## MANUFACTURES—DELAWARE.

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## COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rent- <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 4,448,045	Dollars. 3,261,023	Dollars. 37,265,319	Dollars. 324,714	Dollars. 144,375	Dollars. 7,591,222	Dollars. 81,453,158	Dollars. 3,979,775	Dollars. 105,073,009	Dollars. 79,640,076	85,150	46,648	13,095	1,607	4,448	19,352	25,221	1
4,731	4,033	3,458	300	980	156	2,338	120	8,830	6,372	40	40		12		39		2
4,962		16,091	500	980	327	14,835	969	64,013	48,209	51			19		21		3
43,880	6,800	50,577	535	9,170	844	45,187	2,104	140,632	93,281	40							4
		18,750			163	28,490		52,500	24,010	35							5
		131,615			4,961	163,884	440	440,794	276,470	538	538						6
14,300	5,779	21,726		670	876	95,961	3,383	159,477	60,133	27					27		7
71,400	58,114	317,633	278	10,503	55,700	1,562,551	54,463	2,504,100	887,088	414	25		10		379		8
9,480	260	97,870		1,520	1,524	34,848	38,004	222,740	149,888	661	536				125		9
8,180	4,321	29,490		460	1,406	503,768	12,285	570,402	54,349	186	185				1		10
162,952	25,977	722,654	60	3,278	87,046	3,182,883	54,316	4,705,378	1,468,179	2,723	2,610	25	70		18		11
108,882	18,248	415,571	60	1,600	40,476	1,827,537	30,444	2,860,975	802,994	1,921	1,876	25	2		18		12
54,090	7,729	307,083		1,078	40,570	1,355,346	23,872	2,044,403	665,135	802	734		68				13
4,282		21,530		794	1,359	21,900	1,026	72,360	49,534	29			4		25		14
59,903	586,843	4,107,745			16,992	2,820,457	86,072	7,687,013	4,771,484	2,515	1,765	750				3,018	15
19,020	65	88,089	200	8,192	11,715	418,502	11,690	666,480	236,288	168	22		35		111		16
13,900	65	24,196		5,293	8,723	140,342	5,304	242,626	96,980	36					36		17
5,120		63,893	200	2,609	2,092	278,160	6,386	423,854	139,308	132	22		35		75		18
18,068	4,976	83,000		3,417	2,075	92,728	1,013	255,230	160,589	8					8		19
23,585	3,267	28,233		1,643	506,692	3,371	630,405	120,342	225	145			10		70		20
5,800	9,552	95,341		6,504	6,707	1,643,870	21,522	2,053,735	390,343	2,738	295		584	1,727	130		21
170,910	61,969	1,260,248	1,673	1,288	95,377	1,511,620	133,324	3,929,938	2,284,994	2,477	1,975	190	31		281	1,299	22
76,112	14,736	179,496		1,042	24,640	543,875	2,948	849,292	302,469	67			2		67		23
51,976	40,980	186,037	393		36,553	76,818	372,305	1,053,011	603,888	167	145	20					24
7,689	1,100	30,587	562	180	1,065	54,320	16,800	143,673	72,538	160	160						25
31,200	6,370	193,847	421		14,582	177,765	101,641	659,583	380,177	1,597	1,064		143	25	365		26
222,093	128,442	1,526,840			170,469	3,265,120	596,480	7,116,083	3,253,468	13,442	8,278	4,691			475	6,557	27
661,007	198,861	5,811,722	6,425	10,587	4,491,848	28,105,589	235,222	50,138,251	21,797,440	7,977	4,528	150			3,299	492	28
92,210	14,333	120,767		1,200	170,472	192,772	34,148	812,787	585,867	813	510	50	160		93	62	29
17,366	5,300	303,725			2,728	466,068	285	1,091,240	624,887	2,554	2,514	40			136		30
10,500	1,705	41,368		440	015	94,564	5,319	183,024	83,741	301	145		20				31
10,303	240	44,883	425	1,042	767	131,067	1,936	229,752	96,749	71	8		13		50		32
3,000	1,833	32,333		6,881	5,556	112,146	2,360	219,727	105,221	55			4		51		33
35,600	1,980	59,491		1,650	2,483	334,301	40,980	530,920	155,659	129	100				29		34
74,682	61,317	792,665			20,002	2,852,854	376,826	4,573,339	1,343,659	5,120	4,640			480		85	35
13,514	34,476	99,856	952		2,158	377,244	7,953	878,979	493,782	244	207				37	80	36
33,283	7,136	86,824	23,526	7,317	3,876	127,352	5,139	352,607	220,116	125			15		110		37
66,391	67,575	312,353	19,876	31,095	21,654	288,824	16,046	1,080,600	795,730	332	20		23		289		38
43,697	48,869	195,266		27,703	14,551	156,514	8,142	697,722	533,066	161					161		39
22,694	18,706	117,092	7,565	3,092	7,103	111,860	7,904	373,040	253,276	171	20		23		128		40
			12,311			450		9,838	9,388								41
318,876	433,943	1,761,768			672,869	3,569,535	276,321	9,385,490	5,539,634	5,154	4,460	400		133	161	2,116	42
		3,600	62		89	8,792	72	18,540	9,676								43
8,840		31,794			180	66,971	2,074	125,553	56,508								44
43,152	20,504	127,997	9,817	8,850	44,708	2,845,929	13,326	3,285,336	426,081	385	288				97		45
21,032	24,402	201,783		3,313	148,627	633,300	4,005	1,101,407	564,102	51					51		46
2,028,203	1,393,914	18,230,979	258,819	23,171	1,457,050	24,588,520	1,442,535	87,078,188	31,047,133	33,508	11,412	6,779	434	2,083	12,800	11,509	47

Mattresses and spring beds.....  
Minerals and earths, ground or other-  
wise treated.....  
Models and patterns, not including  
paper patterns.....  
Optical goods, lenses.....  
Paints.....  
Paving materials.....  
Petroleum, refining.....  
Photo-engraving.....

3 Plumbers' supplies, not elsewhere  
specified.....  
3 Rubber goods, not elsewhere speci-  
fied.....  
2 Sausage, not made in slaughtering  
and meat-packing establishments.....  
1 Sewing machines.....  
3 Shipbuilding, steel.....  
1 Shipbuilding, wooden, including  
boat building.....

2 Silk goods.....  
2 Smelting and refining, not from the  
ore.....  
1 Stamped ware.....  
1 Steam fittings and steam and hot-  
water heating apparatus.....  
1 Structural ironwork, not made in  
steel works or rolling mills.....  
2 Sulphuric, nitric, and mixed acids..  
4 Surgical appliances.....

1 Textile machinery and parts.....  
1 Tobacco, snuff.....  
1 Tools, machinists'.....  
1 Vinegar and cider.....  
1 Wallpaper, not made in paper mills.....  
1 Wooden goods, not elsewhere speci-  
fied.....  
1 Wool scouring.....  
2 Woolen goods.....

<sup>1</sup> No figures given for reasons stated under "Explanation of terms."

<sup>4</sup> Same number reported for one or more other months.

<sup>2</sup> Same number reported throughout the year.

## MANUFACTURES—DELAWARE.

TABLE 27.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

## CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

	262	23,764	201	712	916	515	21,420	Au 22,619	Mh 19,420	22,626	19,271	3,091	123	141	Dollars. 95,710,664
1 WILMINGTON—All industries.	262	23,764	201	712	916	515	21,420	Au 22,619	Mh 19,420	22,626	19,271	3,091	123	141	95,710,664
2 Automobile repairing.	8	38	6	1	3	1	27	Ja 30	De 25	25	25	—	—	—	47,150
3 Brass and bronze products.	4	32	3	4	1	1	23	Ja 37	Se 15	18	18	—	—	—	116,105
4 Bread and other bakery products.	32	364	34	23	8	16	283	Au 298	Ap 264	289	239	44	4	2	972,465
5 Confectionery and ice cream.	16	108	16	6	1	—	85	—	—	90	45	44	1	—	373,573
6 Confectionery.	6	30	8	3	1	—	29	De 34	Oc 25	34	14	10	1	—	85,109
7 Ice cream.	10	69	10	3	—	—	56	Jo 61	De 45	56	31	25	—	—	288,404
8 Copper, tin, and sheet-iron work.	11	87	12	3	—	5	62	Ja 79	Mh 49	67	66	1	—	—	128,638
9 Foundry and machine-shop products.	11	965	1	39	44	35	846	De 1,073	Jo 739	1,068	1,037	20	2	—	4,767,515
10 Grease and tallow, not including lubricating greases.	3	37	3	2	1	1	30	Se 40	De 23	24	24	—	—	—	106,613
11 Liquors, malt, including cereal beverages.	4	127	1	20	8	2	96	Jy 120	De 64	64	64	—	—	—	2,537,772
12 Lumber, planing-mill products, not including planing mills connected with sawmills.	4	28	3	1	1	1	22	No 28	Mh 16	26	26	—	—	—	50,070
13 Marble and stone work.	7	36	9	4	—	—	23	My 27	Ja 14	18	18	—	—	—	84,342
14 Mineral and soda waters.	5	29	6	1	1	1	20	Jo 26	De 14	19	19	—	—	—	80,470
15 Printing and publishing, book and job.	19	131	22	14	1	6	88	Se 92	Jo 84	93	50	39	4	—	290,107
16 Printing and publishing, newspapers and periodicals.	12	295	7	19	34	28	207	—	—	220	188	29	3	—	559,092
17 Printing, publishing, and job printing.	5	98	3	6	8	5	76	No 83	Ja 65	85	73	11	1	—	256,303
18 All other.	7	197	4	13	26	23	131	An 136	Ja 125	135	115	18	—	—	302,789
19 Slaughtering and meat packing.	6	151	5	15	12	10	109	De 125	Mh 98	125	122	3	—	—	723,663
20 Tobacco, cigars.	11	334	8	7	11	5	303	De 354	Jo 213	355	36	277	—	—	1,164,087
21 All other industries*.	109	21,002	65	548	790	403	19,196	—	—	20,125	17,294	2,625	109	97	83,708,102

*All other industries embrace—		Canning and preserving, fish.....	1	Chewing gum.....	1	Gas, illuminating and heating.....	1
Artificial stone products.....	1	Carriages and wagons, including repairs.....	4	Coffee, roasting and grinding.....	1	Hats and caps, other than felt, straw, and wool.....	1
Automobile bodies and parts.....	4	Cars and general shop construction and repairs by electric-railroad companies.....	1	Dyeing and finishing textiles.....	2	Ice, manufactured.....	4
Awnings, tents, and sails.....	1	Cars and general shop construction and repairs by steam-railroad companies.....	2	Electroplating.....	1	Iron and steel, steel works and rolling mills.....	1
Baskets, and rattan and willow ware.....	1	Cars, steam-railroad, not including operations of railroad companies.....	2	Engines, steam, gas, and water.....	1	Jewelry.....	1
Belting and hose, rubber.....	1			Engraving and diesinking.....	1	Jute goods.....	1
Belting, leather.....	1			Fire extinguishers, chemical.....	1	Knit goods.....	2
Bookbinding and blank-book making.....	2			Flour-mill and gristmill products.....	1	Leather, tanned, curried, and finished.....	17
Boxes, paper, set-up paper boxes.....	1			Food preparations, not elsewhere specified.....	3		
Brick.....	2			Furnishing goods, men's.....	2		

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

# MANUFACTURES—DELAWARE.

19

COMBINED AND FOR SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horse-power generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rented. <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 2,018,798	Dollars. 2,014,098	Dollars. 29,346,965	Dollars. 286,806	Dollars. 118,800	Dollars. 6,122,589	Dollars. 58,165,378	Dollars. 2,322,066	Dollars. 121,039,617	Dollars. 60,552,173	47,359	22,162	5,117	237	1,998	17,845	7,165	1
2,302	4,033	37,021	535	8,990	343	32,802	1,734	102,332	67,796	15	.....	.....	.....	.....	15	.....	2
14,300	5,779	21,728	.....	870	376	95,961	3,383	159,477	90,133	27	.....	.....	.....	.....	27	.....	3
65,860	57,176	289,836	72	9,692	53,510	1,368,189	47,803	2,226,290	810,298	351	25	.....	.....	.....	326	.....	4
19,020	65	75,466	200	7,892	11,256	348,283	8,570	550,954	200,095	82	22	.....	.....	.....	60	.....	5
13,900	.....	24,196	.....	5,293	8,723	140,342	5,304	242,628	96,980	36	.....	.....	.....	.....	36	.....	6
5,120	.....	51,270	200	2,599	2,533	207,941	3,272	314,328	103,115	46	22	.....	.....	.....	24	.....	7
18,068	4,976	83,000	.....	3,417	2,075	92,728	1,913	255,230	160,589	8	.....	.....	.....	.....	8	.....	8
166,910	89,949	1,225,868	1,473	1,108	94,867	1,457,348	131,122	3,814,188	2,225,718	2,423	1,960	190	2	.....	271	1,299	9
7,689	1,100	30,587	562	180	1,065	54,329	16,806	143,673	72,538	160	160	.....	.....	.....	.....	.....	10
92,210	14,333	120,767	.....	1,200	170,472	102,772	34,148	812,787	585,867	813	510	50	160	.....	93	62	11
1,500	1,765	18,950	.....	440	444	31,446	3,039	73,999	39,514	136	.....	.....	.....	.....	136	.....	12
4,903	.....	23,895	300	870	534	62,021	1,424	111,759	48,314	56	.....	.....	13	.....	43	.....	13
3,000	1,833	22,783	.....	3,920	4,559	90,912	1,318	170,351	78,121	24	.....	.....	2	.....	22	.....	14
33,288	7,136	86,224	23,510	7,137	3,800	123,012	4,959	342,756	214,785	109	.....	.....	.....	.....	109	.....	15
50,811	64,275	246,636	12,134	28,093	20,503	213,807	12,145	896,249	670,297	230	.....	.....	.....	.....	230	.....	16
16,114	15,406	51,370	773	90	5,963	59,413	4,048	194,789	131,328	80	.....	.....	.....	.....	80	.....	17
43,697	48,869	195,266	11,361	28,003	14,540	154,394	8,097	701,460	538,969	159	.....	.....	.....	.....	159	.....	18
43,152	20,564	114,261	9,239	8,850	44,040	2,610,962	11,316	3,003,696	381,418	329	235	.....	.....	.....	94	.....	19
21,032	24,402	201,783	.....	3,313	148,627	533,300	4,005	1,101,407	564,102	51	.....	.....	.....	.....	61	.....	20
2,365,095	1,747,312	26,748,162	218,781	33,019	5,565,618	50,857,506	2,038,375	107,268,469	54,372,588	42,536	19,250	4,877	60	1,998	16,351	5,804	21

Lubricating greases.....	1	Photo-engraving.....	1	Shipbuilding, steel.....	2	Surgical appliances.....	1
Machine tools.....	1	Pickles and sauces.....	2	Shipbuilding, wooden, including boat building.....	2	Textile machinery and parts.....	1
Mattresses and spring beds.....	3	Plumbers' supplies, not elsewhere specified.....	2	Silk goods.....	2	Tools, machinists'.....	1
Minerals and earths, ground or otherwise treated.....	1	Pulp goods.....	2	Smelting and refining, not from the ore.....	1	Wall paper, not made in paper mills.....	1
Models and patterns, not including paper patterns.....	2	Rubber goods, not elsewhere specified.....	1	Stamped ware.....	1	Wooden goods, not elsewhere specified.....	1
Oil, not elsewhere specified.....	2	Saddlery and harness.....	2	Steam fittings and steam and hot-water heating apparatus.....	1	Wool scouring.....	1
Optical goods, lenses.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	1	Structural ironwork, not made in steel works or rolling mills.....	3		
Paints.....	1	Sewing machines.....	1				
Paper and wood pulp.....	2						

<sup>1</sup> Same number reported for one or more other months.



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR

FOURTEENTH CENSUS OF THE UNITED STATES

MANUFACTURES: 1919

DISTRICT OF COLUMBIA

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

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## EXPLANATION OF TERMS.

**Scope of census.**—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention should be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or whose products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

**Period covered.**—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

**The establishment.**—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

**Classification by industries.**—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

**Selected industries.**—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

**Comparisons with previous censuses.**—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

**Influence of increased prices.**—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

**Persons engaged in the industry.**—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is believed not to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

**Prevailing hours of labor.**—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

**Capital.**—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

**Materials.**—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

**Rent and taxes.**—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individual and partnership establishments.

**Value of products.**—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

**Value added by manufacture.**—The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

**Cost of manufacture and profits.**—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

**Primary horsepower.**—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

**Fuel.**—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

## DISTRICT OF COLUMBIA.

### GENERAL STATISTICS.

**Area and population.**—The District of Columbia, which is coextensive with the city of Washington, contains 70 square miles, of which 60 represent land surface. Its population in 1900 was 278,718; in 1910, 331,069; and in 1920, 437,571.

**Comparative summary.**—Table 1 summarizes the more important data relative to all classes of manufactures combined in the District of Columbia for the last five censuses. The statistics are exclusive of the establishments operated by the Federal Government, which are shown separately in Tables 16, 17, 18, and 19. In connection with the percentages of increase from census to census, due consideration must be given to the fact that increases in wages, in cost of materials used, and in value of products, since 1914, reflect very largely industrial conditions brought about by the World War and the lessened purchasing power of the dollar. The increases in primary horsepower and in number of wage earners afford the best indication of the true increase in manufacturing operations.

**Principal industries, ranked by value of products** (Table 2).—The ranking of industries by value of products is often misleading as to their true importance from a manufacturing standpoint. The slaughtering and meat-packing industry, for instance, which ranks third in value of products, would rank ninth in average number of wage earners, and fifth in value added by manufacture.

**Persons engaged in manufacturing industries** (Table 3).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 21.

**Average number of wage earners for selected industries** (Table 4).—The industries covered by this table are those which employed 100 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing individual operations.

**Wage earners employed, by months** (Table 5).—The statistics for wage earners are intended to show the steadiness of employment, or the reverse, in accordance with the conditions as they existed during the several census years. For the district the variations between the maximum and minimum are remarkably small.

**Wage earners, by months, for selected industries** (Table 6).—In addition to the number employed by months, similar data are given for males and females for all industries combined. There was no industry in the district in 1919 in which female wage earners predominated, but the industries which provided employment for a large number of that sex are shown.

**Prevailing hours of labor** (Table 7).—Since 1914 there has been a marked shortening of the working day. In that year only 54.5 per cent of the wage earners were included in the group "48 and under," as against 69.8 per cent in 1919. On the other hand, in 1914 the "60" and "over 60" groups constituted 18.1 per cent of the total wage earners, as against only 5 per cent in 1919.

**Size of establishments, by average number of wage earners, for selected industries** (Table 8).—The extent to which the small manufacturing establishments predominated in the district is shown in this table. Only 6 establishments employed more than 250 wage earners each.

**Size of establishments, by value of products** (Table 9).—At the censuses of 1909 and 1914 establishments with products valued at \$100,000 to \$1,000,000 constituted a single group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914.

**Size of establishments, by value of products, for selected industries** (Table 10).—In the preparation of this table it was necessary in several instances to com-



## MANUFACTURES—DISTRICT OF COLUMBIA.

bine the establishments of one group with those of some other group to avoid the possibility of disclosing the operations of individual establishments.

**Character of ownership** (Table 11).—It will be noted that the number of establishments in each of the three groups shown in this table formed approximately the same proportion of the total in 1919 as in 1914, the number in each group having increased about one-sixth during the five-year period.

**Number and horsepower of types of prime movers** (Table 12).—The returns show a marked decrease in the use of steam and internal-combustion engines in

1919 as compared with 1914, whereas the number of electric motors driven by rented current more than doubled and the horsepower of such motors more than trebled during the five-year period. It will be noted also that the use of electric power generated by the establishments shows a marked decrease since 1914.

**Fuel consumed** (Table 13).—This table shows the total quantities of the principal kinds of fuel used by the manufacturing plants in the district in 1919 and 1914, and gives separately for 1919 the amounts used by a number of industries which are large consumers of fuel.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	595	514	518	482	491	15.8	-0.8	7.5	-1.8
Persons engaged.....	14,101	11,323	9,758	7,778	( <sup>2</sup> )	24.5	16.0	25.5	.....
Proprietors and firm members.....	515	435	475	473	( <sup>2</sup> )	18.4	-5.4	0.4	.....
Salaried employees.....	3,104	2,011	1,576	1,006	957	54.4	27.6	55.7	5.1
Wage earners (average number).....	10,482	8,877	7,707	6,299	6,155	18.1	15.2	22.4	2.3
Primary horsepower.....	33,079	24,775	16,563	12,592	10,255	33.5	49.6	31.5	22.8
Capital.....	\$63,008,179	\$40,810,200	\$30,552,623	\$20,199,783	\$17,960,498	54.4	33.6	51.2	12.5
Salaries and wages.....	18,856,410	8,605,693	6,835,052	4,804,979	3,894,788	119.1	25.9	40.5	24.9
Salaries.....	5,667,379	2,537,001	1,845,603	1,206,609	871,882	123.4	37.5	53.0	38.4
Wages.....	13,189,031	6,068,692	4,989,449	3,658,370	3,022,906	117.3	21.6	36.4	21.0
Paid for contract work.....	2,770,506	847,785	304,326	281,369	( <sup>3</sup> )	226.8	178.6	16.4	.....
Rent and taxes.....	2,880,950	1,320,298	792,718	347,732	( <sup>3</sup> )	118.2	60.5	.....	.....
Cost of materials.....	30,940,100	12,239,123	10,246,534	7,731,971	7,475,216	152.8	19.4	32.5	3.4
Value of products.....	68,826,570	28,978,241	25,289,136	18,359,159	16,426,408	137.5	14.6	37.7	11.8
Value added by manufacture.....	37,886,470	16,739,118	15,042,602	10,627,188	8,951,192	126.3	11.3	41.5	18.7

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.

TABLE 2.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.			WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.					
	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.					
All industries.....	595	10,482	100.0	\$68,827	100.0	\$37,886	100.0						
Printing and publishing, newspapers and periodicals.....	67	808	7.7	11,898	17.3	9,099	24.0						
Bread and other bakery products.....	74	1,321	12.6	10,626	15.4	4,393	11.6						
Slaughtering and meat packing.....	6	203	1.9	5,012	7.3	784	2.1						
Confectionery (ice cream).....	7	513	4.9	4,101	6.0	2,699	7.1						
Printing and publishing, book and job.....	102	1,034	9.9	3,975	5.8	2,540	6.7						
Foundry and machine-shop products.....	19	302	2.9	1,159	1.7	653	1.7						
Ice, manufactured.....	10	238	2.3	1,081	1.6	663	1.7						
Coffee, roasting and grinding.....	5	31	0.3	925	1.3	108	0.5						
Automobile repairing.....	27	214	2.0	884	1.3	482	1.3						
Lumber, planing-mill products, not including planing mills connected with sawmills.....	9	244	2.3	860	1.3	478	1.3						
Confectionery.....	16	104	1.0	\$758	1.1	\$303	0.8						
Lithographing.....	6	197	1.9	687	1.0	448	1.2						
Structural ironwork, not made in steel works or rolling mills.....	8	99	0.9	644	0.9	328	0.9						
Mineral and soda waters.....	11	82	0.8	644	0.9	379	1.0						
Copper, tin, and sheet-iron work.....	22	144	1.4	526	0.8	344	0.9						
Food preparations, not elsewhere specified.....	9	31	0.3	506	0.7	85	0.2						
Patent medicines and compounds.....	15	50	0.5	480	0.7	381	1.0						
Marble and stone work.....	12	116	1.1	437	0.6	244	0.7						
Druggists' preparations.....	3	32	0.3	314	0.5	131	0.3						
Mattresses and spring beds.....	5	46	0.4	309	0.4	146	0.4						
Awnings, tents, and sails.....	5	76	0.7	274	0.4	129	0.3						
Photo-engraving.....	4	61	0.6	267	0.4	229	0.6						
All other industries*.....	153	4,536	43.3	22,460	32.6	12,771	33.7						

\* Among the industries for which statistics can not be shown separately without the possibility of disclosing individual operations, are a number having products in excess of some for which figures are shown in the table. Of these industries, the most important are the following: Baking powders and yeast; card cutting and designing; cars and general shop construction and repairs by electric-railroad companies; cars and general shop construction and repairs by steam-railroad companies; flour-mill and gristmill products; gas, illuminating and heating; iron and steel, steel works and rolling mills; and paper and wood pulp.

# MANUFACTURES—DISTRICT OF COLUMBIA.

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TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Fe-male.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Fe-male.	PER CENT OF TOTAL.	
					Male.	Fe-male.						Male.	Fe-male.
All classes.....	1919	14,101	11,746	2,355	83.3	16.7	Clerks and other subordinate salaried employees.	1919	2,325	1,336	989	57.5	42.5
	1914	11,323	9,692	1,631	85.6	14.4		1914	1,518	1,040	478	68.5	31.5
	1909	9,758	8,588	1,160	88.1	11.9		1909	1,152	853	299	74.0	26.0
Proprietors and officials.....	1919	1,294	1,217	77	94.0	6.0	Wage earners (average number)...	1919	10,482	9,193	1,289	87.7	12.3
	1914	928	872	56	94.0	6.0		1914	8,877	7,780	1,097	87.6	12.4
	1909	899	836	63	96.3	3.7		1909	7,707	6,879	828	89.3	10.7
Proprietors and firm members...	1919	515	482	33	93.6	6.4	16 years of age and over.....	1919	10,430	9,157	1,273	87.8	12.2
	1914	435	404	31	92.9	7.1		1914	8,831	7,780	1,051	87.8	12.2
	1909	475	455	20	95.8	4.2		1909	7,688	6,931	757	89.2	10.8
Salaried officers of corporations...	1919	281	267	14	95.0	5.0	Under 16 years of age.....	1919	52	36	16	69.2	30.8
	1914	199	189	10	95.0	5.0		1914	43	20	23	46.5	53.5
	1909	170	164	6	96.5	3.5		1909	19	18	1	94.7	5.3
Superintendents and managers..	1919	498	468	30	94.0	6.0							
	1914	294	270	24	91.9	8.1							
	1909	254	247	7	97.2	2.8							

TABLE 4.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL.			INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL.		
			16 years of age and over.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
			Male.	Female.					Male.	Female.	
All industries.....	1919	10,482	87.5	12.0	0.5	Ice, manufactured <sup>1</sup> .....	1919	238	99.2	0.8	.....
	1914	8,877	87.4	12.1	0.5						
	1909	7,707	89.0	10.7	0.2	Lithographing.....	1919	197	82.7	16.8	0.5
							1914	141	94.3	5.7	.....
Automobile repairing.....	1919	214	100.0	.....	.....	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	244	98.0	1.6	0.4
	1914	105	100.0	.....	.....		1914	249	100.0	.....	.....
Bread and other bakery products.....	1919	1,321	84.2	15.2	0.6	Marble and stone work.....	1919	116	100.0	.....	.....
	1914	1,161	90.6	8.6	0.8		1914	130	100.0	.....	.....
Confectionery.....	1919	104	26.0	74.0	.....	Printing and publishing, book and job.....	1919	1,034	75.2	24.1	0.7
	1914	63	31.7	68.3	.....		1914	762	76.4	23.3	0.3
Confectionery (ice cream).....	1919	513	95.9	4.1	.....	Printing and publishing, newspapers and periodicals.	1919	808	82.8	14.8	2.4
	1914	199	98.0	2.0	.....		1914	641	82.1	14.5	3.4
Copper, tin, and sheet-iron work.....	1919	144	100.0	.....	.....	Slaughtering and meat packing <sup>1</sup> .....	1919	203	95.6	4.4	.....
	1914	191	99.5	0.5	.....						
Foundry and machine-shop products.....	1919	302	99.3	0.3	0.3	All other industries.....	1919	5,044	89.0	10.7	0.3
	1914	334	99.7	0.3	.....		1914	4,901	88.6	13.2	0.2

<sup>1</sup> Not shown separately in 1914.

TABLE 5.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	10,459	8,696	<b>7,421</b>	97.5	94.2	93.4	July.....	10,522	8,785	<b>7,785</b>	98.1	95.0	97.9
February.....	10,387	8,672	<b>7,445</b>	96.9	94.0	93.7	August.....	10,578	8,885	<b>7,752</b>	98.6	96.3	97.5
March.....	<b>10,819</b>	<b>8,658</b>	<b>7,535</b>	98.2	93.8	94.8	September.....	10,332	8,965	<b>7,840</b>	96.4	97.2	<b>98.4</b>
April.....	10,449	8,725	<b>7,619</b>	97.4	94.6	95.8	October.....	10,375	8,995	<b>7,849</b>	96.8	97.5	<b>100.0</b>
May.....	10,463	9,003	<b>7,774</b>	97.6	97.6	97.8	November.....	10,618	9,064	<b>7,861</b>	99.0	98.2	98.9
June.....	10,559	8,860	<b>7,761</b>	98.5	96.1	97.6	December.....	10,723	9,227	<b>7,753</b>	100.0	100.0	97.5

<sup>1</sup> The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by boldface figures, minimum by italic figures.

## MANUFACTURES—DISTRICT OF COLUMBIA.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES: 1919.

[The month of maximum employment for each industry is indicated by boldface figures and that of minimum employment by italic figures.]

INDUSTRY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	10,482	10,459	10,387	<i>10,319</i>	10,449	10,463	10,559	10,522	10,578	10,332	10,375	10,618	<b>10,723</b>	96.2
Males.....	9,193	9,210	9,134	<i>9,034</i>	9,155	9,170	9,297	9,230	9,305	9,064	9,080	9,286	<b>9,351</b>	96.6
Females.....	1,289	<i>1,249</i>	1,253	1,285	1,294	1,293	1,262	1,292	1,273	1,268	1,295	1,332	<b>1,372</b>	91.0
Automobile repairing.....	214	229	215	<i>209</i>	210	216	<i>200</i>	214	214	218	216	<i>209</i>	<i>200</i>	91.3
Bread and other bakery products.....	1,321	<b>1,342</b>	1,311	1,320	<b>1,323</b>	1,327	1,312	<i>1,310</i>	<i>1,310</i>	1,322	1,325	1,327	<b>1,323</b>	97.0
Confectionery.....	104	93	95	96	97	100	91	84	89	105	112	120	<b>157</b>	53.5
Confectionery (ice cream).....	513	<i>420</i>	438	437	491	533	650	<b>671</b>	622	522	478	454	440	62.6
Copper, tin, and sheet-iron work.....	141	128	142	140	152	150	170	165	177	83	88	164	160	46.0
Foundry and machine-shop products.....	302	293	301	300	287	295	314	306	311	307	306	304	300	91.4
Ice, manufactured.....	238	215	219	228	243	242	259	260	263	255	248	214	<i>210</i>	79.8
Lithographing.....	197	185	187	203	197	187	193	214	209	203	200	197	189	86.4
Lumber, planing-mill products, not including planing mills connected with sawmills.....	244	<i>227</i>	234	238	238	247	245	263	254	252	241	239	250	86.3
Marble and stone work.....	116	91	88	94	101	121	139	135	128	130	123	120	122	63.3
Printing and publishing, book and job.....	1,034	<i>968</i>	1,008	1,020	1,015	993	1,044	1,008	985	990	1,059	1,143	<b>1,175</b>	82.4
Printing and publishing, newspapers and periodicals.....	808	735	749	782	796	801	816	826	827	823	<b>851</b>	843	847	86.4
Slaughtering and meat packing.....	203	211	202	195	202	201	198	188	196	201	204	212	226	83.2
All other industries.....	5,044	<b>5,322</b>	5,198	5,057	5,097	5,050	4,919	4,878	4,903	4,921	4,924	5,063	5,106	91.6
<i>Industries showing large proportion of females.</i>														
Bread and other bakery products.....	203	201	<i>197</i>	200	202	209	198	200	199	206	207	209	208	94.3
Printing and publishing, book and job.....	259	255	269	268	269	249	254	259	248	<i>245</i>	255	260	277	88.4
Printing and publishing, newspapers and periodicals.....	132	130	128	132	132	132	135	139	141	<i>124</i>	133	130	128	87.9

TABLE 7.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	10,482	1,900	268	5,144	518	269	1,850	147	377
	1914	8,877	( <sup>2</sup> )	( <sup>2</sup> )	4,839	091	977	767	381	1,222
	1909	7,707	( <sup>2</sup> )	( <sup>2</sup> )	2,944	782	1,558	254	1,117	1,052
Automobile repairing.....	1919	214	.....	7	68	35	83	.....	21	.....
	1914	105	.....	.....	.....	.....	98	.....	.....	7
Bread and other bakery products.....	1919	1,321	5	.....	984	165	10	199	3	15
	1914	1,161	( <sup>2</sup> )	( <sup>2</sup> )	741	20	321	16	26	37
Confectionery.....	1919	104	.....	.....	98	3	3	.....	.....	.....
	1914	63	( <sup>2</sup> )	( <sup>2</sup> )	57	.....	4	.....	2	.....
Confectionery (ice cream).....	1919	513	.....	.....	141	2	.....	47	.....	323
	1914	199	.....	.....	.....	.....	.....	155	.....	44
Copper, tin, and sheet-iron work.....	1919	144	102	.....	40	.....	2	.....	.....	.....
	1914	191	( <sup>2</sup> )	( <sup>2</sup> )	191	.....	.....	.....	.....	.....
Foundry and machine-shop products.....	1919	302	50	.....	252	.....	.....	.....	.....	.....
	1914	334	( <sup>2</sup> )	( <sup>2</sup> )	276	45	13	.....	.....	.....
Ice, manufactured <sup>3</sup> .....	1919	238	.....	.....	36	.....	.....	195	.....	7
Lithographing.....	1919	197	.....	49	148	.....	.....	.....	.....	.....
	1914	141	( <sup>2</sup> )	( <sup>2</sup> )	88	53	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	244	7	6	231	.....	3	.....	.....	.....
	1914	249	( <sup>2</sup> )	( <sup>2</sup> )	246	.....	.....	.....	.....	.....
Marble and stone work.....	1919	116	102	5	9	.....	.....	.....	.....	.....
	1914	130	( <sup>2</sup> )	( <sup>2</sup> )	69	.....	61	.....	.....	.....
Printing and publishing, book and job.....	1919	1,034	81	42	911	.....	.....	.....	.....	.....
	1914	762	( <sup>2</sup> )	( <sup>2</sup> )	723	5	32	.....	2	.....
Printing and publishing, newspapers and periodicals.....	1919	808	20	54	547	.....	.....	187	.....	.....
	1914	641	( <sup>2</sup> )	( <sup>2</sup> )	634	.....	6	.....	1	.....
Slaughtering and meat packing <sup>3</sup> .....	1919	203	.....	.....	140	.....	61	.....	2	.....
All other industries.....	1919	5,044	1,533	105	1,539	373	110	1,231	121	32
	1914	4,901	( <sup>2</sup> )	( <sup>2</sup> )	1,814	568	439	596	350	1,134

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.<sup>3</sup> Not shown separately for 1914.

# MANUFACTURES—DISTRICT OF COLUMBIA.

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TABLE 8.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.		
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.		
All industries.....	595	10,482	132	234	595	143	1,577	48	1,655	20	1,353	12	1,828	4	1,345	1	751	1	1,348	
Automobile repairing.....	27	214	2	12	30	11	133	2	51											
Bread and other bakery products.....	74	1,321	19	34	81	10	93	2	75	6	420	2	326	1	317					
Confectionery.....	16	104	1	10	31	4	38	1	35											
Confectionery (ice cream).....	7	513		2	4	2	14	1	47			1	132	1	316					
Copper, tin, and sheet-iron work.....	22	144	2	11	26	8	93	1	25											
Foundry and machine-shop products.....	19	302		5	13	8	81	5	152	1	56									
Ice, manufactured.....	10	238		1	5	7	80		2	153										
Lithographing.....	6	197				2	32	3	108	1	57									
Lumber, planing-mill products, not including planing mills connected with sawmills.....	9	244				3	20	6	224											
Marble and stone work.....	12	116		8	26	3	40	1	50											
Printing and publishing, book and job.....	102	1,034	35	38	84	18	190	8	326	1	57	2	377							
Printing and publishing, newspapers and periodicals.....	67	808	48	7	15	4	66	2	70	2	127	4	530							
Slaughtering and meat packing.....	6	203		1	2	1	6	3	134	1	61									
All other industries.....	218	5,044	25	105	278	62	691	13	388	6	413	3	463	2	712	1	751	1	1,348	

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	595	514	518	10,482	8,877	7,707	\$68,826,570	\$28,978,241	\$25,289,136	\$37,886,470	\$10,739,118	\$15,042,602
Less than \$5,000.....	125	127	147	42	146	182	299,940	326,764	383,463	189,031	231,976	264,245
\$5,000 to \$20,000.....	181	199	187	498	671	956	2,021,696	2,114,545	2,020,003	1,278,741	1,327,467	1,294,810
\$20,000 to \$100,000.....	192	133	135	1,743	2,380	2,480	9,272,206	5,711,981	5,819,241	5,411,283	3,415,524	3,418,883
\$100,000 to \$500,000.....	71	43	46	3,065	3,622	3,028	15,091,792	8,356,101	12,053,605	8,187,489	7,448,999	7,114,346
\$500,000 to \$1,000,000.....	10	7		800			7,205,082	4,774,579		2,518,328		
\$1,000,000 and over.....	16	5	3	4,334	1,758	1,061	34,935,854	7,694,271	5,012,734	20,301,598	4,315,152	2,950,318
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	21.0	24.7	28.4	0.4	1.6	2.4	0.4	1.1	1.5	0.5	1.4	1.8
\$5,000 to \$20,000.....	30.4	38.7	36.1	4.8	10.9	12.4	2.9	7.3	8.0	3.4	7.9	8.6
\$20,000 to \$100,000.....	32.3	25.9	26.1	16.6	26.8	32.2	13.5	19.7	23.0	14.3	20.4	22.7
\$100,000 to \$500,000.....	11.9	8.4	8.9	29.2	40.8	39.3	21.9	28.8	47.7	21.6	44.5	47.3
\$500,000 to \$1,000,000.....	1.7	1.3		7.6			10.5	10.5		6.6		
\$1,000,000 and over.....	2.7	1.0	0.6	41.3	19.8	13.8	50.8	20.6	19.8	53.6	25.8	19.6

## MANUFACTURES—DISTRICT OF COLUMBIA.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
BREAD AND OTHER BAKERY PRODUCTS	74	58	100.0	100.0	1,321	1,161	100.0	100.0	\$10,625,868	\$3,916,169	100.0	100.0	\$4,393,044	\$1,625,441	100.0	100.0	
Less than \$5,000	14	9	18.9	15.5	1	6	0.1	0.5	43,452	29,753	0.4	0.8	17,926	13,513	0.4	0.8	
\$5,000 to \$20,000	25	27	33.8	46.5	34	84	2.6	7.2	279,966	272,084	2.6	6.9	112,004	119,249	2.6	7.3	
\$20,000 to \$100,000	23	11	31.1	19.0	128	104	9.7	9.0	955,036	398,502	9.0	10.2	393,183	157,073	8.9	9.7	
\$100,000 to \$500,000	5	10	6.8	17.2	272	1,067	20.6	83.3	1,395,642	3,215,830	13.1	82.1	600,539	1,335,006	13.7	82.1	
\$500,000 and over	7	1	9.4	1.7	889	—	67.1	—	7,951,772	—	74.8	—	3,208,792	—	74.4	—	
COPPER, TIN, AND SHEET-IRON WORK	22	22	100.0	100.0	144	191	100.0	100.0	525,707	340,589	100.0	100.0	344,039	183,123	100.0	100.0	
Less than \$5,000	5	7	22.7	31.8	3	13	2.1	6.8	11,625	20,925	2.2	6.1	0,937	14,132	2.0	7.7	
\$5,000 to \$20,000	9	10	40.9	45.5	30	60	20.8	31.4	103,291	93,093	19.6	27.3	65,431	58,523	19.0	32.0	
\$20,000 to \$100,000	8	5	36.4	22.7	111	118	77.1	61.8	410,791	226,571	78.1	66.5	271,671	110,468	79.0	60.3	
FOUNDRY AND MACHINE-SHOP PRODUCTS	19	17	100.0	100.0	302	334	100.0	100.0	1,159,176	646,203	100.0	100.0	653,207	446,244	100.0	100.0	
Less than \$20,000	7	7	36.8	41.2	38	42	12.6	12.6	85,958	67,026	7.4	10.4	61,701	50,478	9.4	11.3	
\$20,000 to \$100,000	8	9	42.1	52.9	103	292	34.1	87.4	335,405	579,177	28.9	89.6	252,252	395,766	38.6	88.7	
\$100,000 to \$500,000	4	1	21.1	5.9	161	—	53.3	—	737,813	—	63.7	—	339,254	—	51.9	—	
LITHOGRAPHING	6	4	100.0	—	197	141	100.0	—	687,447	314,119	100.0	—	448,225	196,111	100.0	—	
\$20,000 to \$100,000	3	(3)	50.0	—	81	—	41.1	—	222,769	—	32.4	—	175,505	—	39.2	—	
\$100,000 to \$500,000	3	(3)	50.0	—	116	—	58.9	—	464,678	—	67.6	—	272,719	—	60.8	—	
PRINTING AND PUBLISHING, BOOK AND JOB	102	80	100.0	100.0	1,034	762	100.0	100.0	3,974,976	1,618,662	100.0	100.0	2,540,426	1,154,723	100.0	100.0	
Less than \$5,000	45	35	44.1	43.8	15	33	1.5	4.3	92,471	83,981	2.3	5.2	61,020	58,390	2.4	5.0	
\$5,000 to \$20,000	26	26	25.5	32.5	80	133	7.7	17.5	272,373	261,493	6.9	16.2	172,766	194,847	6.8	16.9	
\$20,000 to \$100,000	21	16	20.6	20.0	203	309	19.6	40.6	982,996	684,958	23.5	42.3	640,443	483,275	25.1	41.9	
\$100,000 to \$500,000	10	3	9.8	3.8	736	287	71.2	37.7	2,677,136	588,230	67.3	36.3	1,074,597	418,211	65.7	36.2	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	67	60	100.0	100.0	808	641	100.0	100.0	11,897,555	4,139,268	100.0	100.0	9,098,797	3,127,535	100.0	100.0	
Less than \$5,000	16	17	23.9	28.3	—	22	—	3.4	32,618	42,646	0.3	1.0	28,151	39,477	0.3	1.3	
\$5,000 to \$20,000	18	24	26.9	40.0	13	59	1.6	9.2	187,966	241,500	1.6	5.8	160,433	217,191	1.9	6.8	
\$20,000 to \$100,000	18	11	26.9	18.3	30	55	3.7	8.6	760,481	436,542	6.4	10.5	716,072	338,781	7.9	10.8	
\$100,000 to \$500,000	10	5	14.9	8.3	357	261	44.2	40.7	2,481,736	1,026,753	20.9	24.8	1,712,870	767,429	18.8	24.5	
\$500,000 to \$1,000,000	—	2	—	3.3	—	244	—	38.1	—	2,391,827	—	57.8	—	1,764,657	—	50.4	—
\$1,000,000 and over	5	1	7.5	1.7	408	—	50.5	—	8,434,754	—	70.9	—	6,472,271	—	71.1	—	

<sup>1</sup> Includes the group "\$500,000 to \$1,000,000."<sup>2</sup> Includes the group "\$100,000 to \$500,000."<sup>3</sup> Figures not shown, to avoid disclosing individual operations.<sup>4</sup> Includes the group "\$1,000,000 and over."

TABLE 11.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
All industries.....	1919	309	178	108	10,482	1,617	8,086	779	15.4	77.1	7.4	\$68,826,570	\$8,788,904	\$53,176,333	\$6,861,333	12.8	77.3	10.0				
	1914	268	153	93	8,877	2,041	5,965	871	23.0	67.2	9.8	28,978,241	5,080,976	21,308,253	2,520,012	17.5	73.7	8.7				
	1900	303	122	93	7,707	2,419	4,459	829	31.4	57.9	10.8	25,289,136	5,847,661	16,544,835	2,896,640	23.1	65.4	11.5				
Bread and other bakery products.	1919	59	9	6	1,321	350	912	59	26.5	69.0	4.5	10,625,868	2,461,884	7,368,322	705,662	23.2	69.3	7.5				
	1914	46	8	4	1,161	383	762	16	33.0	65.6	1.4	3,916,169	1,295,470	2,555,808	64,891	33.1	65.3	1.6				
Foundry and machine-shop products.	1919	8	5	0	302	142	66	94	47.0	21.9	31.1	1,159,176	590,026	247,436	321,714	50.9	21.3	27.8				
	1914	9	3	5	334	224	16	94	67.1	4.8	28.1	646,203	363,140	120,000	163,063	56.2	18.6	25.2				
Printing and publishing, book and job.	1919	62	24	16	1,034	184	779	71	17.8	75.3	6.9	3,974,976	841,768	2,861,956	271,252	21.2	72.0	6.8				
	1914	44	19	17	762	167	526	60	21.9	69.0	9.1	1,618,662	437,381	1,004,085	177,196	27.0	62.0	11.0				
Printing and publishing, newspapers and periodicals.	1919	10	30	27	808	14	777	17	1.7	96.2	2.1	11,897,555	93,969	9,266,333	2,537,263	0.8	77.9	21.3				
	1914	16	26	18	641	45	583	13	7.0	91.0	2.0	4,139,268	97,020	3,255,088	787,160	2.4	78.6	19.0				

# MANUFACTURES—DISTRICT OF COLUMBIA.

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TABLE 12.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total.....	2,874	1,616	940	33,079	24,775	16,563	100.0	100.0	100.0
Owned.....	172	285	278	13,109	18,338	14,060	39.6	74.1	84.9
Steam.....	113	214	217	10,340	15,230	12,212	31.2	61.5	73.7
Engines.....	97	(2)	(2)	8,863	(2)	(2)	26.8		
Turbines.....	16	(2)	(2)	1,472	(2)	(2)	4.4		
Internal-combustion engines.....	54	67	55	2,103	2,568	1,073	6.4	10.4	6.5
Water wheels and turbines.....	5	4	6	666	540	775	2.0	2.2	4.7
Rented.....	2,702	1,331	662	19,970	6,437	2,503	60.4	26.0	15.1
Electric.....	2,702	1,331	662	19,960	6,407	2,433	60.3	25.9	14.7
Other.....				10	30	70	0.1	0.1	0.4
Electric.....	2,883	1,659	887	21,943	9,522	4,527	100.0	100.0	100.0
Rented.....	2,702	1,331	662	19,960	6,407	2,433	91.0	67.3	53.7
Generated by establishment reporting.....	181	328	225	1,983	3,115	2,094	9.0	32.7	46.3

<sup>1</sup> Figures for horsepower for 1909 include the amount reported under the head of "other" owned power.  
<sup>2</sup> Not reported separately. <sup>3</sup> Less than one-tenth of 1 per cent.

TABLE 13.—FUEL CONSUMED, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	87,731	125,170	15,579	399,236	1,147	964,794
Per cent of increase <sup>1</sup> .....	50,552	159,924	1,831	259,093	(1)	48,662
	47.3	-21.7	750.8	54.1	(1)	1,883.0
Bread and other bakery products.....	5,573	5,209		3	45	409,361
Confectionery (ice cream).....	47	15,586		522	36	
Foundry and machine-shop products.....	138	380	350	12	176	522,518
Gas, illuminating and heating.....	76,541	15,884	1,897	346,509		
Ice, manufactured.....	2,499	21,259	2,769			
Iron and steel, steel works and rolling mills.....		24,923	2,317	52,065	189	
Lumber, planing-mill products, not including planing mills connected with sawmills.....	496	575			71	400
Paper and wood pulp.....			7,991			
Printing and publishing, book and job.....	330	637		3	10	2,424
Printing and publishing, newspapers and periodicals.....	480	807			51	13,300
Slaughtering and meat packing.....		4,917				
All other industries.....	1,621	34,873	255	62	569	16,801

<sup>1</sup> Included in figures for fuel oil.

<sup>2</sup> A minus sign (-) denotes decrease.

## SPECIAL STATISTICS.

**Laundries.**—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries in the various tables in this report. Table 14, however, summarizes the statistics for such laundries in the District as reported for 1919 and 1914.

TABLE 14.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	21	18	
Persons engaged.....	2,295	1,351	69.9
Proprietors and firm members.....	10	10	
Salaried employees.....	140	124	12.9
Wage earners (average number).....	2,145	1,217	76.3
Primary horsepower.....	1,633	1,071	52.5
Capital.....	\$1,374,200	\$971,336	41.5
Salaries and wages.....	1,364,048	562,398	142.5
Salaries.....	314,468	121,408	159.0
Wages.....	1,049,580	440,990	138.0
Paid for contract work.....	4,882	260	1,777.7
Rent and taxes.....	69,731	29,907	133.2
Cost of materials.....	481,036	181,876	164.5
Amount received for work done.....	2,559,210	1,023,475	150.1

<sup>1</sup> Percentages are omitted where base is less than 100.

**Dyeing and cleaning.**—Table 15 shows, for 1919, statistics for dyeing and cleaning establishments that were operated by mechanical power. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 15.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	6
Persons engaged.....	103
Proprietors and firm members.....	6
Salaried employees.....	3
Wage earners (average number).....	94
Primary horsepower.....	73
Capital.....	\$147,450
Salaries and wages.....	105,732
Salaries.....	3,131
Wages.....	102,601
Rent and taxes.....	4,644
Cost of materials.....	44,178
Amount received for work done.....	236,761

## MANUFACTURES—DISTRICT OF COLUMBIA.

## ESTABLISHMENTS OPERATED BY FEDERAL GOVERNMENT.

A large proportion of the wage earners of the District (65.8 per cent in 1919 and 54.5 per cent in 1914) are employed by the Federal Government in operations similar to those carried on in the manufacturing establishments conducted under private ownership. These operations, however, are conducted for the exclusive benefit of the Government, and, as the

products are not manufactured for sale, no value of products is shown. The statistics for the governmental establishments are not included in the general statistics for manufactures, but are presented separately in tables 16, 17, 18, and 19. The abnormal activity of governmental establishments in 1919 is apparent from an examination of these statistics.

TABLE 16.—GOVERNMENTAL ESTABLISHMENTS: 1919, 1914, 1909, AND 1904.

INDUSTRY.	Census year.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.			CAPITAL.*	EXPENSES.					
			Total.	Officials and clerks.	Wage earners (average number).		Total.	Salaries.	Wages.	Cost of materials.	Rent.	Contract work.
All industries.....	1919	11	22,423	2,254	20,169	\$85,533,787	\$50,074,899	\$3,540,566	\$29,794,728	\$25,346,438	\$60,720	\$332,447
	1914	11	11,639	1,025	10,614	30,863,067	17,892,758	1,122,927	10,614,466	5,902,954	12,736	209,675
	1909	11	11,666	1,009	10,657	28,479,599	15,508,250	1,016,745	10,603,040	3,807,626	10,565	10,274
	1904	11	11,470	488	10,982	24,567,754	14,958,958	643,113	9,740,261	4,502,090	34,794	38,700
Engraving and printing <sup>1</sup> .....	1919	3	7,752	484	7,268	7,786,485	11,867,487	658,539	8,001,899	3,166,407	.....	40,622
	1914	4	4,146	318	3,828	6,151,511	4,678,123	398,697	3,600,227	657,470	.....	21,729
	1909	4	4,190	311	3,879	3,107,610	4,684,332	352,547	3,593,419	708,217	.....	10,149
	1904	4	3,206	183	3,023	2,409,100	3,492,264	238,871	2,601,896	621,372	6,400	23,725
Instruments, professional and scientific (Smithsonian Institution).	1919	1	1	.....	1	3,500	2,240	.....	1,740	500	.....	.....
	1914	1	1	.....	1	3,500	1,645	.....	1,320	325	.....	.....
	1909	1	1	.....	1	3,500	1,695	.....	1,260	310	.....	125
	1904	1	1	.....	1	2,650	1,679	.....	1,080	509	.....	.....
Naval Gun Factory (United States Navy Yard).	1919	1	9,265	1,212	8,053	68,764,200	32,180,537	2,128,949	13,575,872	16,475,716	.....	.....
	1914	1	3,239	253	2,986	27,318,507	6,834,341	280,735	3,065,057	3,488,549	.....	.....
	1909	1	3,141	297	2,844	19,192,224	4,577,663	203,317	2,893,670	1,480,676	.....	.....
	1904	1	3,396	107	3,289	16,448,005	5,331,459	107,966	2,639,184	2,569,334	.....	14,975
Government printing <sup>2</sup> .....	1919	3	5,011	534	4,477	8,276,003	12,862,097	713,774	7,738,823	4,162,973	47,970	198,557
	1914	3	4,051	408	3,643	6,302,618	6,143,345	453,637	3,827,458	1,691,610	3,294	187,946
	1909	3	4,155	390	3,765	6,102,958	6,079,295	449,042	4,042,467	1,587,786	.....	.....
	1904	4	4,572	190	4,382	5,679,074	5,898,638	287,916	4,330,998	1,256,626	23,298	.....
Other industries <sup>3</sup> .....	1919	3	394	24	370	703,599	2,162,558	30,304	476,394	1,540,842	12,750	93,268
	1914	2	202	46	156	80,931	205,304	10,458	120,404	65,000	9,442	.....
	1909	2	179	11	168	73,327	185,265	11,839	132,224	30,637	10,565	.....
	1904	1	295	8	287	27,325	234,718	8,360	167,103	54,159	5,099	.....

\* The capital reported represents almost exclusively the value placed on the land, buildings, and machinery, and does not include cash, bills receivable, and other items similar to those reported for the establishments operated under private ownership.

<sup>1</sup> Includes the Bureau of Engraving and Printing and establishments operated in the Geodetic Survey, the Geological Survey, and the Department of State in 1914, 1909, and 1904, and the same in 1919, with the exception of the establishment operated in the State Department.

<sup>2</sup> Includes the Government Printing Office and an establishment operated in the Weather Bureau; also one establishment operated in the War Department in 1914, 1909, and 1904 and one operated in the State Department in 1919.

<sup>3</sup> Includes, in 1919, two reports from the Post Office Department (one for the mail equipment shops and one for the rural motor truck garage) and one report for the City Post office garage; in 1914 and 1909, two reports from the Post Office Department (one for the mail-bag repair shop and one for the mail-lock shop) which in 1904 were included in one report.

TABLE 17.—GOVERNMENTAL ESTABLISHMENTS—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.				NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	20,903	10,750	11,030	98.8	100.0	100.0	July.....	19,436	10,501	10,258	91.8	97.7	93.0
February.....	20,392	10,744	11,027	96.4	99.9	99.9	August.....	19,672	10,553	10,416	93.0	98.2	94.4
March.....	19,727	10,703	10,998	93.2	99.6	99.7	September.....	19,354	10,607	10,116	94.3	98.7	91.7
April.....	19,753	10,565	10,852	93.3	98.3	98.4	October.....	20,937	10,615	10,681	90.2	98.7	96.8
May.....	19,637	10,528	10,631	92.8	97.9	96.4	November.....	21,161	10,610	10,591	100.0	98.7	96.0
June.....	19,407	10,566	10,517	91.7	98.3	95.3	December.....	20,994	10,626	10,775	99.2	98.8	97.7

<sup>1</sup> Figures represent number employed on 15th of each month or nearest representative day. Maximum number indicated by boldface figures, minimum by *italic*.

# MANUFACTURES—DISTRICT OF COLUMBIA.

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TABLE 18.—GOVERNMENTAL ESTABLISHMENTS—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.				
				Amount.			Per cent of increase. <sup>1</sup>	
	1919	1914	1909	1919	1914	1909	1914-1919	1909-1914
Primary power, total.....	291	204	177	27,793	11,167	5,902	148.9	89.2
Owned.....	25	33	29	27,313	10,921	5,756	150.1	89.7
Steam.....	25	32	28	27,313	10,911	5,746	150.3	89.9
Engines.....	19	( <sup>2</sup> )	( <sup>2</sup> )	8,027	( <sup>2</sup> )	( <sup>2</sup> )		
Turbines.....	6	( <sup>2</sup> )	( <sup>2</sup> )	19,286	( <sup>2</sup> )	( <sup>2</sup> )		
Internal-combustion engines.....		1	1		10	10		
Rented—Electric.....	266	171	148	480	246	146	95.1	68.5
Electric—Generated by establishment reporting.....	6,211	3,535	1,972	54,620	10,636	10,729	413.5	-0.9

<sup>1</sup> A minus sign (—) denotes decrease.

<sup>2</sup> Not reported separately.

TABLE 19.—GOVERNMENTAL ESTABLISHMENTS—FUEL CONSUMED: 1919 AND 1914.

KIND.	Unit.	QUANTITY.		Per cent of increase, <sup>1</sup> 1914-1919.	KIND.	Unit.	QUANTITY.		Per cent of increase, 1914-1919.
		1919	1914				1919	1914	
Anthracite coal.....	Ton, 2,240 pounds.	5,850	11,341	-48.4	Fuel oils.....	Barrel.....	54,612	18,625	193.2
Bituminous coal.....	Ton, 2,000 pounds.	90,773	44,099	126.2	Gas (manufactured).....	1,000 cubic feet.....	36,887	24,297	51.8
Coke.....	Ton, 2,000 pounds.	1,215	677	110.6					

<sup>1</sup> A minus sign (—) denotes decrease.

## GENERAL TABLES.

Table 20 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the District for 1919, 1914, and 1909. Certain kindred industries

are combined in some instances for comparison with 1909.

Table 21 presents, for 1919, statistics for the District as a whole and for each industry that can be shown without the disclosure of individual operations.

TABLE 20.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
All industries.....	1919	505	10,482	33,079	\$13,189	\$30,940	\$68,827	Marble and stone work.....	1919	12	116	159	\$112	\$193	\$437
	1914	514	8,877	24,775	6,069	12,239	28,978		1914	12	130	82	74	147	290
	1909	518	7,707	16,563	4,989	10,246	25,289		1909	15	265	72	180	250	549
Bread and other bakery prod- ucts.	1919	74	1,321	1,111	1,606	6,233	10,626	Mineral and soda waters.....	1919	11	82	116	73	265	644
	1914	58	1,161	937	818	2,291	3,916		1914	11	95	55	60	131	285
	1909	71	975	911	702	2,202	3,590		1909	9	64	67	45	73	190
Coffee, roasting and grinding....	1919	5	31	111	30	757	925	Patent medicines and com- pounds and druggists' prepa- rations.	1919	18	82	118	49	282	794
	1914	5	29	61	26	304	428		1914	20	169	62	62	218	613
	1909	4	17	90	9	374	523		1909	17	78	50	36	57	384
Confectionery.....	1919	16	104	14	106	455	758	Printing and publishing <sup>2</sup> .....	1919	186	2,154	2,746	2,690	4,548	16,859
	1914	9	63	10	19	108	194		1914	156	1,671	2,065	1,239	1,648	6,242
	1909	15	128	15	62	152	284		1909	156	1,565	1,703	1,101	1,095	4,899
Copper, tin, and sheet-iron work.	1919	22	144	65	175	182	526	Tobacco and cigars.....	1919	9	59	7	41	56	154
	1914	22	101	49	122	157	341		1914	15	145	8	67	111	245
	1909	17	152	6	108	160	340		1909	21	63	3	32	45	109
Foundry and machine-shop products. <sup>1</sup>	1919	54	615	1,054	730	1,224	2,688	All other industries.....	1919	179	5,530	25,935	7,282	16,363	33,556
	1914	26	562	871	396	518	1,230		1914	170	4,412	19,896	2,994	6,412	14,753
	1909	23	509	571	310	466	1,175		1909	160	3,582	12,574	2,215	5,118	12,628
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	9	244	643	295	382	860								
	1914	10	249	679	162	194	441								
	1909	10	309	501	189	254	609								

<sup>1</sup> Includes "automobile repairing" and "structural iron work, not made in steel works or rolling mills."

<sup>2</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing;" and "lithographing."



## MANUFACTURES—DISTRICT OF COLUMBIA.

TABLE 21.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital. Dollars.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Average number.	Wage earners.		Total.	16 and over.		Under 16.					
						Male.	Female.		Number, 15th day of—			Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	All industries.....	565	14,101	515	779	1,336	980	10,482	De 10,723	Mh 10,319	(2)	(3)	(2)	(3)	(3)	63,008,170			
2	Automobile bodies and parts.....	5	34	5	3	1		25	De 33	Mh 21	30	28	2			102,002			
3	Automobile repairing.....	27	285	26	18	14	13	214	Ja 229	Ja 203	209	209				730,427			
4	Awnings, tents, and sails.....	5	97	7	7	4	3	76	My 85	Se 69	73	26	47			116,211			
5	Bookbinding and blank-book making.....	6	84	9	1	1	2	71	Ja 78	Ja 66	74	40	32	2		76,369			
6	Bread and other bakery products.....	74	1,713	72	46	234	40	1,321	Ja 1,342	Jy 1,310	1,332	1,121	203	3	5	4,095,524			
7	Clothing, women's.....	3	33	5				28	Aug 33	Mh 26	27	1	26			12,344			
8	Coffee, roasting and grinding.....	5	63	3	9	17	3	31	Ja 33	Ap 30	31	18	13			270,688			
9	Confectionery and ice cream.....	23	765	21	47	40	40	617			597	463	134			3,372,850			
10	Confectionery.....	16	149	18	7		20	104	De 157	Jy 84	157	41	116			515,016			
11	Ice cream.....	7	616	3	40	40	20	513	Jy 671	Ja 423	440	422	18			2,857,834			
12	Copper, tin, and sheet-iron work.....	22	106	17	21	8	6	144	Aug 177	Se 83	167	167				264,689			
13	Druggists' preparations.....	3	47		10		5	32	Mh 35	Aug 26	31	8	13	3	7	244,434			
14	Electroplating.....	3	14	5		1		8	Ja 8	Ap 7	8	7				7,676			
15	Engraving and die-cutting.....	4	7	4				3	De 6	Mh 2	6	6				3,160			
16	Engraving, steel and copper plate, including plate printing.....	5	58	6	3	1	4	44	De 52	Ja 30	52	33	10			60,053			
17	Food preparations, not elsewhere specified.....	9	52	10	4	7		31	De 38	Fe 21	38	20	18			104,304			
18	Foundry and machine-shop products.....	19	362	22	21	11	6	302			302	330	1	1		680,131			
19	Machine shops.....	14	247	14	15	9	4	205	Aug 215	Ap 192	205	203	1	1		585,559			
20	All other.....	5	115	8	6	2	2	97	Ja 103	Ja 94	97	97				304,552			
21	Fur goods.....	6	53	8	2		10	33	De 43	Ja 25	43	23	20			283,485			
22	Furniture.....	4	27	3	2			22	Aug 30	My 18	21	19	2			18,762			
23	Hand stamps.....	4	45	2	3	5	4	31	My 34	De 26	30	28	2			107,947			
24	Hats and caps, other than felt, straw, and wool.....	3	11	3				8	No 9	Ja 7	9	6	3			9,576			
25	Ice, manufactured.....	10	206	1	33	22	2	238	Aug 263	De 210	241	242	2			4,123,741			
26	Jewelry.....	7	29	7	4		1	17	De 20	Ja 14	17	17				4,571			
27	Lithographing.....	6	242		23	14	8	197	Jy 214	Ja 185	189	159	32	1		661,861			
28	Lumber, planing-mill products, not including planing mills connected with sawmills.....	9	270	5	10	8	3	244	Jy 263	Ja 227	258	253	4	1		571,767			
29	Marble and stone work.....	12	141	15	8		2	116			122	122				288,691			
30	Monuments and tombstones.....	4	31	6	2			23	Ja 26	Ja 26	23	23				53,568			
31	All other.....	8	110	9	6		2	93	Ja 113	Fe 66	99	99				234,523			
32	Mattresses and spring beds.....	5	56	5	1	3	1	46	Jy 51	Ap 42	38	27	11			125,027			
33	Mineral and soda waters.....	11	122	7	9	21	3	82	Ja 103	Fe 57	81	81				323,070			
34	Models and patterns, not including paper patterns.....	4	9	5				4	Ja 4	My 3	4	4				16,729			
35	Optical goods: Lenses.....	4	15	3				12	De 13	Ja 12	13	11	1	1		13,673			
36	Patent medicines and compounds.....	15	107	10	11	14	22	50	Oc 55	Je 45	51	21	30			158,530			
37	Photo-engraving.....	4	81	2	12	7	2	61	No 67	Ja 56	65	65				81,099			
38	Pickles, preserves, and sauces.....	3	9	4				6	(c) 5	(c) 5	5	5				2,900			
39	Printing and publishing, book and job.....	102	1,278	108	76	32	28	1,034			1,253	942	302	8	1	3,100,545			
40	Job work only.....	90	1,253	106	73	32	27	1,013	De 1,154	Ja 948	1,232	923	300	8	1	3,001,679			
41	All other.....	8	25	2	1		1	21	Fe 21	Ja 20	21	21				108,166			
42	Printing and publishing, newspapers and periodicals.....	67	2,183	20	160	519	676	808			849	705	125	16	3	5,745,257			
43	Printing and publishing.....	11	1,170	1	63	371	120	615	De 651	Ja 564	651	567	89	4	1	3,275,243			
44	Printing, publishing, and job printing.....	7	203	9	7	54	56	173	Oc 195	Ja 149	179	141	21	12	2	454,333			
45	Publishing, without printing.....	49	714	10	90	94	500	20	Ja 22	Ap 19	19	7	12			2,015,654			
46	Slaughtering and meat packing.....	6	272	4	12	42	11	203	De 226	Jy 188	226	216	10			1,847,690			
47	Structural ironwork, not made in steel works or rolling mills.....	8	140	6	14	17	4	99	Oc 107	Ap 90	100	100				567,454			
48	Tobacco and cigars.....	9	74	10	2	3		59	No 76	Je 42	77	31	46			49,750			
49	All other industries*.....	53	4,819	75	198	293	90	4,136								34,434,401			

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

\* All other industries embrace—

Artificial limbs.....	2	Canning and preserving, fish.....	2	Dental goods.....	1
Artists' materials.....	1	Card cutting and designing.....	1	Electrical machinery, apparatus, and supplies.....	1
Automobiles.....	1	Cars and general shop construction and repairs by electric-railroad companies.....	1	Fancy articles, not elsewhere specified.....	1
Baking powders and yeast.....	1	Cars and general shop construction and repairs by steam-railroad companies.....	2	Flavorings.....	1
Baskets, and rattan and willow ware.....	2	Chemicals.....	2	Flour-mill and gristmill products.....	1
Boxes, set-up paper boxes.....	2	Clothing, men's.....	2	Gas and electric fixtures.....	2
Brass, bronze, and copper products.....	1	Coal-tar products.....	1	Gas, illuminating and heating.....	1
Brick and tile, sewer pipe and drain tile.....	2	Dairy-men's, poultry-men's, and apiarists' supplies.....	1	Grease and tallow, not including lubricating greases.....	1
Brooms, from broom corn.....	2			House-furnishing goods, not elsewhere specified.....	1

## MANUFACTURES—DISTRICT OF COLUMBIA.

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COMBINED AND FOR SPECIFIED INDUSTRIES: 1919.

EXPENSES.										POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal combustion engines.	Water power. <sup>1</sup>		Rent. <sup>2</sup>
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
2,595,491	3,071,888	13,159,031	2,770,506	399,949	2,481,001	27,462,366	3,477,734	68,826,570	37,886,470	33,079	8,868	1,472	2,103	666	19,970	1,983
6,500	1,000	30,483	200	2,040	623	39,149	828	101,663	61,689	21					21	
35,522	54,361	229,085	2,000	23,080	5,826	388,905	12,719	884,002	482,378	153			2		156	
20,640	8,756	70,526		5,662	1,036	144,102	1,415	274,384	128,867	18					18	
3,380	2,282	67,244	2,952	7,006	229	53,127	1,435	169,780	115,218	28					28	
125,125	597,071	1,605,877	1,186	42,883	365,402	6,067,380	169,444	10,625,868	4,393,044	1,111	310		9		792	267
		19,565		1,552	218	33,747	399	69,940	35,794	4					4	
61,600	33,897	30,020		4,440	16,700	749,605	6,900	924,785	168,191	111					111	
246,922	78,457	771,632	8,679	15,177	114,200	1,707,488	149,656	4,859,698	3,001,954	3,478	1,620				1,858	
13,558	10,767	105,852	1,532	11,585	39,276	445,268	10,074	758,235	302,893	14					14	
233,364	67,090	666,780	7,107	3,592	74,924	1,262,220	139,582	4,100,863	2,699,061	3,464	1,620				1,844	
40,251	13,073	174,973	1,580	12,044	3,923	179,152	2,516	525,707	344,039	65				35	30	
29,940	5,800	23,405		2,066	1,692	181,620	797	313,692	131,275	16					16	
		9,265		1,200	40	2,975	564	19,202	15,663	17				8	9	
		6,260		755	15	769	100	19,645	18,774	4					4	
4,840	3,889	49,799		4,655	318	29,006	1,052	129,480	99,422	7					7	
5,834	6,847	26,888	1,185	2,450	974	417,031	3,729	505,547	84,787	52				34	18	
52,842	25,008	370,848		13,293	13,197	499,377	15,592	1,159,176	653,207	437				186	179	
47,382	18,088	254,038		9,280	9,875	310,402	8,683	779,680	460,195	269				81	176	
5,460	6,920	116,810		4,013	3,322	179,575	6,909	379,496	193,012	168				105	3	
6,170	9,976	52,733	150	4,860	9,034	101,400	1,667	214,858	111,791	30					30	
3,870		33,162	800	2,752	525	22,241	1,323	81,807	58,243	44		30			14	
8,720	13,846	37,359	8,213	4,440	444	104,382	2,128	214,715	108,205	21					21	
		9,288		1,320	80	9,236	405	27,996	18,555	2					2	
62,842	37,473	299,524		7,800	54,777	180,429	237,589	1,080,666	662,648	6,258	1,954			391	2,438	596
9,590	1,247	38,006		2,843	219	45,008	361	134,981	89,612	7					7	
80,502	54,780	224,575	200	10,171	3,770	230,190	9,032	687,447	448,225	178					178	
34,687	14,609	295,365	2,000	11,140	8,220	369,313	12,958	860,389	478,118	643	340		25		278	
33,540	2,740	112,179	2,300	2,729	1,714	189,032	3,920	436,972	244,020	159				57	102	
4,490		35,393		1,230	289	45,263	1,085	104,128	57,780	51				36	15	
29,050	2,740	76,786	2,300	1,499	1,425	143,769	2,835	332,844	186,240	108				21	87	
2,808	4,033	52,612		4,838	933	161,070	2,758	309,412	145,584	68					68	
22,566	40,952	73,055		6,365	74,057	258,380	6,174	643,778	379,224	116	24			17	75	2
		6,558		516	67	6,500	313	21,576	14,763	8					8	
24,952	10,783	18,592	35	2,717	69	17,146	1,050	51,185	32,959	8					8	
		25,690	441	9,365	49,438	98,793	834	480,411	380,784	102	40				62	7
39,742	11,109	109,574	4,005	5,580	4,207	35,820	2,703	267,192	228,669	23					23	
		2,080	106	540	22	6,705	181	14,533	7,647	1					1	
252,806	70,937	1,182,500	47,642	64,222	127,041	1,384,560	40,990	3,974,970	2,549,426	854				8	846	
248,956	69,337	1,154,300	12,133	62,422	126,935	1,382,145	39,750	3,882,177	2,460,282	850					842	
3,850	1,600	28,200	35,509	1,800	106	2,415	1,240	92,709	89,144	4					4	
683,497	1,423,094	1,166,320	2,567,489	57,294	278,749	2,754,828	43,930	11,897,555	9,098,797	1,679	385				1,294	
328,154	750,594	953,868		28,848	271,975	1,897,891	32,575	6,407,600	4,476,834	1,421	385				1,036	
23,134	115,302	196,452		9,269	5,934	412,818	9,531	803,708	381,329	257					257	
332,209	557,798	16,000	2,567,489	19,177	840	444,089	1,524	4,686,247	4,240,634	1					1	
59,980	69,996	245,725		8,432	19,188	4,165,209	62,630	5,012,294	784,455	917	270	145			502	
50,747	34,330	129,837	101,929	6,816	3,392	308,768	7,379	644,470	328,323	459				112	347	
2,639	2,493	40,700		2,582	23,210	55,850	597	154,025	97,578	7					7	
589,537	437,447	5,547,927	17,454	44,234	1,207,452	6,473,076	2,675,576	21,033,364	11,884,712	15,968	3,823	1,327	135	275	10,408	1,111

\* No figures given for reasons stated under "Explanation of terms."

4 Same number reported for one or more other months.

\* Same number reported throughout the year.

Instruments, professional and scientific.....	3	Perfumery and cosmetics.....	2	Sporting and athletic goods.....	1
Iron and steel, steel works and rolling mills.....	1	Pottery, earthen and stone ware.....	2	Statuary and art goods.....	2
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	1	Printing materials.....	1	Stereotyping and electrotyping.....	2
Liquors, malt, including cereal beverages.....	1	Regalia, and society badges and emblems.....	1	Surgical appliances.....	2
Millinery, embroideries.....	1	Roofing materials.....	1	Tools, not elsewhere specified.....	1
Paints.....	1	Sand-lime brick.....	1	Toys and games.....	1
Paper and wood pulp.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	1	Trunks and valises.....	1
Paper goods, not elsewhere specified.....	2	Shipbuilding, wooden, repair work only.....	2	Vinegar and cider.....	2
Peanuts, grading, roasting, cleaning, and shelling..	3	Shirts.....	1	Window and door screens.....	1
		Signs and advertising novelties.....	1	Window shades and fixtures.....	2

DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

FLORIDA

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

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## EXPLANATION OF TERMS.

**Scope of census.**—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

**Period covered.**—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

**The establishment.**—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

**Classification by industries.**—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

**Selected industries.**—The general tables at the end of this bulletin give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

**Comparisons with previous censuses.**—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

**Influence of increased prices.**—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

**Persons engaged in the industry.**—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

(2)

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

**Prevailing hours of labor.**—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

**Capital.**—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

**Materials.**—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

**Rent and taxes.**—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

**Value of products.**—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

**Value added by manufacture.**—The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

**Cost of manufacture and profits.**—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

**Primary horsepower.**—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

**Fuel.**—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

# FLORIDA.

## GENERAL STATISTICS.

**General character of the state.**—Florida has a gross area of 58,666 square miles, of which 54,861 represent land surface. The inhabitants of the state in 1900 numbered 528,542; in 1910, 752,619; and in 1920, 968,470. In total population Florida ranked thirty-second among the states in 1920. The number of inhabitants per square mile in 1910 was 13.7, the corresponding figures for 1920 being 17.7.

In 1920 there were six cities in the state—Jacksonville, Key West, Miami, Pensacola, St. Petersburg, and Tampa—having more than 10,000 inhabitants. The combined population of these six cities in that year was 236,758, and formed 24.4 per cent of the total for Florida, and in 1919 they reported 47.8 per cent of the value of the state's manufactured products.

**Importance and growth of manufactures** (Table 1).—The increase in wages, cost of materials, and the value of products, from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War. The increases shown, however, in average number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

**Statistics for the state, by counties** (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Of the 54 counties in the state, Duval and Hillsborough, containing the cities of Jacksonville and Tampa, reported 45.2 per cent of the total value of products in the state and 36.3 per cent of the average number of wage earners.

**Principal industries, ranked by value of products** (Table 3).—The ranking of industries by value of products is not always conclusive as indicating their importance from a manufacturing standpoint. Their ranking might change materially if based upon the average number of wage earners or value added by manufacture.

**Persons engaged in manufacturing industries** (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex, for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 30.

**Average number of wage earners for selected industries** (Table 5).—The industries covered by this table are those which employed more than 400 wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

**Average number of wage earners, by sex and age, and value of products, for cities of 10,000 inhabitants or more** (Table 6).—During the census period 1914–1919, each of the six cities shows increases in all details except in the number of wage earners under 16 years of age. The largest actual increases were in Tampa, \$28,422,460, or 202.5 per cent, in value of products and 6,024, or 85.4 per cent, in number of wage earners; while Pensacola shows the largest percentage increases—882.7 per cent in value of products and 449.2 per cent in number of wage earners.

**Wage earners, by months** (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

**Wage earners, by months, for selected industries and for cities** (Table 8).—In addition to the number of wage earners employed by months, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more. The table also shows the number of females for industries in the state in 1919 in which a large proportion of the wage earners employed were females.

**Prevailing hours of labor** (Table 9).—Since 1914 there has been a marked shortening of the working-day in Florida. In that year only 16.9 per cent of the wage earners were reported in the group "48 and under" as against 37.9 per cent in 1919. In 1914, the "60" and "over 60" groups constituted 62 per cent of the total wage earners, as compared with 37.3 per cent in 1919.

**Size of establishments, by average number of wage earners, for selected industries and for cities** (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 94 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 39.1 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage

earners represented only 6 per cent of the total manufacturing establishments in the state, but reported 60.9 per cent of the total number of wage earners.

**Size of establishments, by value of products (Table 11).**—At the censuses of 1909 and 1914, establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

**Size of establishments, by value of products, for selected industries (Table 12).**—In the preparation of this table it was necessary in some instances to combine the establishments of one group of the industry with those of some other group of that industry to avoid the possibility of disclosing the operations of individual establishments.

**Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).**—This table strikingly illustrates the fact that the number of establishments of itself is no real index of the extent of manufacturing activities.

**Character of ownership (Table 14).**—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 29 per cent of the number of establishments in the state in 1919, they reported 73.5 per cent of the average number of wage earners and 77.9 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners in

corporations increased 19,724, or 56.4 per cent, and the value of products \$107,872,198, or 184.9 per cent.

**Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).**—This table shows that the combined number of establishments in these six cities in 1919 represented 29.4 per cent of the total in the state. They reported in that year 37.7 per cent of the average number of wage earners and 47.8 per cent of the value of products.

**Principal industries in Jacksonville and Tampa, with per cent of total for the state (Table 16).**—This table includes all industries in the cities of Jacksonville and Tampa having products of \$300,000 and over for which figures can be shown without disclosing the operations of individual establishments.

**Number and horsepower of types of prime movers (Table 17).**—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 39,385 horsepower, or 39.4 per cent. Of this increase, 22,850 horsepower, or 58 per cent, was owned power, and 16,535, or 42 per cent, rented power. During this five-year period owned power increased 24.4 per cent and rented power 255 per cent.

**Fuel consumed (Table 18).**—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. In 1919 steam-railroad repair shops consumed 46.2 per cent of the bituminous coal; the gas industry consumed 12.4 per cent of the fuel oils, 14.7 per cent of the bituminous coal, and 65.8 per cent of the anthracite coal. Of the fuel oils, 37.2 per cent was consumed in the manufacture of ice.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	2,582	2,518	2,159	1,413	1,275	2.5	16.6	52.8	18.8
Persons engaged.....	82,986	63,204	64,810	46,985	(2)	31.3	-2.5	37.9	.....
Proprietors and firm members.....	2,616	2,682	2,712	1,769	(2)	-2.5	-1.1	53.3	.....
Salaried employees.....	5,955	4,914	4,625	3,125	1,781	21.2	6.2	48.0	73.5
Wage earners (average number).....	74,415	55,608	57,473	42,091	35,471	33.8	-3.2	36.5	18.7
Primary horsepower.....	139,456	100,071	89,816	43,413	36,356	39.4	11.4	106.9	22.4
Capital.....	\$206,293,570	\$88,318,983	\$65,290,643	\$32,971,982	\$25,682,171	133.6	35.3	98.0	28.4
Salaries and wages.....	78,268,575	39,112,454	27,936,439	18,436,908	12,216,019	150.9	7.8	51.5	59.8
Salaries.....	10,835,346	5,290,131	4,954,867	2,669,726	1,299,576	104.8	6.8	85.6	105.4
Wages.....	67,433,229	24,822,323	22,981,572	15,767,182	10,916,443	171.7	8.0	45.8	44.4
Paid for contract work.....	938,056	1,057,998	1,316,755	550,925	(2)	-11.3	-19.7	136.4	.....
Rent and taxes.....	7,411,261	2,419,075	1,993,014	339,898	(2)	206.4	21.4	.....	.....
Cost of materials.....	92,680,224	33,815,688	26,128,279	16,532,439	12,847,187	174.1	29.4	58.0	28.7
Value of products.....	213,326,811	81,112,291	72,889,659	50,298,290	34,183,509	163.0	11.3	44.9	47.1
Value added by manufacture.....	120,046,587	47,296,603	46,761,380	33,765,851	21,336,322	155.1	1.1	38.5	53.7

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.

# MANUFACTURES—FLORIDA.

5

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horsepower.
		Average number.	Wages.					
The state.....	2,582	74,415	\$67,433,220	\$7,411,261	\$92,680,224	\$213,326,811	\$120,616,587	139,456
Alachua.....	74	1,419	1,200,653	46,057	1,703,545	3,893,522	2,189,977	2,731
Baker.....	6	270	150,959	2,899	167,440	458,208	290,768	240
Bay.....	38	1,633	1,341,934	167,525	1,030,838	3,350,773	2,319,935	2,712
Bradford.....	35	348	210,245	6,075	216,389	645,061	428,672	273
Brevard.....	32	343	313,365	30,919	176,014	735,535	559,521	1,519
Broward.....	14	61	50,804	4,838	72,762	219,570	146,808	345
Calhoun.....	36	899	473,537	31,040	374,285	1,420,317	1,016,032	866
Citrus.....	17	579	374,390	10,184	262,741	905,636	642,895	1,440
Clay.....	17	589	417,747	12,085	394,658	904,917	510,250	1,766
Columbia.....	19	842	504,556	28,795	245,898	1,447,650	1,202,252	1,711
Dade.....	102	1,385	1,333,399	86,136	1,558,505	3,869,029	2,310,524	3,843
De Soto.....	85	1,595	1,102,840	67,402	833,398	3,455,660	2,022,271	5,541
Duval.....	288	12,378	13,615,304	1,021,865	24,044,903	47,487,402	22,542,499	27,647
Escambia.....	99	6,204	7,002,289	203,745	12,732,626	22,561,251	9,828,625	10,158
Flagler.....	10	212	146,611	6,412	87,362	330,664	243,302	575
Franklin.....	27	821	521,309	45,601	420,017	1,600,372	1,174,355	1,418
Gadsden.....	38	842	509,285	132,927	375,300	1,697,487	1,322,187	2,233
Hamilton.....	27	413	224,913	9,944	251,196	686,468	435,272	309
Hernando.....	19	521	423,610	12,678	227,785	904,540	676,755	2,429
Hillsborough.....	317	14,637	15,949,485	3,719,143	20,514,288	48,039,327	28,395,039	9,146
Holmes.....	23	680	530,399	37,996	378,611	1,391,464	1,013,453	1,134
Jackson.....	61	904	470,780	23,588	867,226	2,298,652	1,431,420	1,563
Jefferson.....	22	277	192,544	4,394	145,896	499,064	323,168	442
Lafayette.....	13	514	509,646	33,411	481,055	1,337,925	856,870	3,000
Lake.....	34	517	438,808	10,913	340,643	1,343,070	1,002,427	1,739
Lee.....	30	180	154,950	20,588	258,813	597,535	338,722	1,016
Leon.....	43	700	515,820	20,555	729,661	1,598,526	888,865	1,429
Levy.....	33	1,207	801,086	43,444	963,566	2,386,767	1,423,201	2,990
Liberty.....	18	897	639,551	17,707	437,672	1,617,354	1,179,682	1,052
Madison.....	41	519	350,123	15,671	560,159	1,081,631	521,472	1,848
Manatee.....	49	826	649,167	28,833	804,149	1,963,321	1,159,172	2,920
Marion.....	53	1,173	770,684	70,415	923,612	2,508,991	1,615,979	2,523
Monroe.....	69	2,313	2,094,401	659,775	2,776,183	6,520,351	3,744,168	1,221
Nassau.....	35	744	450,719	13,543	332,571	1,245,968	913,397	1,116
Okaloosa.....	27	733	450,403	11,266	342,031	1,329,324	987,293	909
Okeechobee.....	6	24	13,069	3,658	48,472	249,092	200,620	238
Orange.....	51	521	410,293	38,732	1,042,878	1,938,183	895,305	1,519
Osceola.....	15	186	146,663	12,034	129,906	459,099	329,193	260
Palm Beach.....	52	269	258,249	37,236	441,694	1,068,862	627,768	2,215
Pasco.....	22	853	715,999	36,521	582,726	1,758,921	1,176,195	1,416
Pmelas.....	98	603	526,449	38,978	1,361,038	2,551,702	1,190,664	2,041
Polk.....	82	1,410	1,330,589	78,272	1,357,513	3,509,868	2,152,355	2,878
Putnam.....	39	1,449	879,735	70,185	1,321,278	3,443,228	2,121,950	4,243
St. Johns.....	46	953	872,853	46,448	1,007,352	2,368,606	1,361,254	1,373
St. Lucie.....	24	279	307,413	12,296	321,475	828,641	502,166	1,062
Santa Rosa.....	32	1,618	1,172,921	44,698	1,309,615	3,392,966	2,083,351	3,532
Seminole.....	25	560	600,842	64,289	868,246	1,799,142	930,896	1,541
Sumter.....	13	399	208,393	4,476	552,787	904,928	352,141	446
Suwannee.....	36	508	375,669	21,152	611,691	1,290,931	679,240	2,621
Taylor.....	36	2,636	1,998,981	34,982	1,874,413	5,583,378	3,708,965	5,652
Volusia.....	63	1,218	981,044	62,799	1,108,836	3,020,521	1,911,685	2,616
Wakulla.....	25	525	254,765	6,586	220,000	756,428	536,428	450
Walton.....	32	1,351	865,102	107,094	730,550	3,012,877	2,282,327	1,538
Washington.....	28	972	461,964	35,456	824,256	2,131,097	1,306,841	2,011

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	2,582	74,415	100.0	\$213,327	100.0	\$120,647	100.0	Boxes, wooden packing, except cigar boxes.....	20	1,025	1.4	\$2,540	1.2	\$1,414	1.2
Lumber and timber products.....	469	21,058	28.3	42,598	20.0	29,085	24.1	Wood distillation.....	6	412	0.6	2,005	0.9	909	0.8
Tobacco, cigars and cigarettes.....	280	12,393	16.6	37,926	17.8	23,392	18.6	Gas, illuminating and heating.....	14	418	0.6	1,989	0.9	1,008	0.8
Shipbuilding, steel.....	5	7,830	10.5	24,234	11.4	13,533	11.2	Minerals and earths, ground or otherwise treated.....	5	717	1.0	1,780	0.8	1,234	1.0
Turpentine and rosin.....	452	11,743	15.8	21,509	10.1	15,650	13.0	Boxes, cigar.....	4	673	0.9	1,683	0.8	933	0.8
Fertilizers.....	24	1,390	1.9	10,686	5.0	3,528	2.9	Coffee, roasting and grinding.....	15	68	0.1	1,602	0.8	303	0.2
Cars and general shop construction and repairs by steam-railroad companies.....	19	3,762	5.1	8,468	4.0	5,240	4.3	Printing and publishing, book and job.....	77	331	0.4	1,518	0.7	909	0.8
Shipbuilding, wooden, including boat building.....	68	3,361	4.5	8,428	3.9	5,212	4.3	Cooperage.....	17	227	0.3	1,122	0.5	350	0.3
Slaughtering and meat packing.....	8	348	0.5	5,316	2.5	500	0.4	Confectionery and ice cream.....	27	105	0.1	1,112	0.5	350	0.3
Lumber, planing-mill products, not including planing mills connected with sawmills.....	63	1,267	1.7	5,271	2.5	2,154	1.8	Oil, not elsewhere specified.....	4	54	0.1	970	0.5	315	0.3
Bread and other bakery products.....	183	737	1.0	5,144	2.4	1,592	1.3	Automobile repairing.....	70	259	0.3	740	0.3	496	0.4
Printing and publishing, newspapers and periodicals.....	160	841	1.1	4,101	1.9	3,001	2.5	Patent medicines and compounds.....	24	58	0.1	738	0.3	351	0.3
Ice, manufactured.....	95	1,412	1.9	4,052	1.9	2,523	2.1	Awning, tents, and sails.....	9	49	0.1	674	0.3	185	0.2
Foundry and machine-shop products.....	64	872	1.2	3,508	1.6	1,986	1.6	Pickles, preserves, and sauces.....	13	124	0.2	590	0.3	203	0.2
Mineral and soda waters.....	105	431	0.6	2,690	1.3	1,185	1.0	Flour-mill and gristmill products.....	27	52	0.1	568	0.3	98	0.1
								Food preparations, not elsewhere specified.....	6	29	(1)	561	0.3	102	0.1
								Copper, tin, and sheet-iron work.....	22	99	0.1	540	0.3	243	0.2
								All other industries.....	215	2,257	3.0	8,684	4.1	3,070	2.0

<sup>1</sup> Less than one-tenth of 1 per cent.

<sup>2</sup> Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are two having products in excess of some for which figures are shown in the table. These industries are as follows: "Oil and cake, cottonseed," and "wood preserving."



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TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919	82,966	76,351	6,635	92.0	8.0	Clerks and other subordinate salaried employees.	1919	2,972	2,219	753	74.7	25.3
	1914	63,204	59,739	3,465	94.5	5.5		1914	2,976	2,718	258	91.3	8.7
	1909	64,810	61,500	3,310	94.9	5.1		1909	2,723	2,539	184	93.2	6.8
Proprietors and officials.....	1919	5,599	5,464	135	97.6	2.4	Wage earners (average number).....	1919	74,415	68,668	5,747	92.3	7.7
	1914	4,620	4,546	74	98.4	1.6		1914	55,608	52,475	3,133	94.4	5.6
	1909	4,614	4,541	73	98.4	1.6		1909	57,473	54,420	3,053	94.7	5.3
Proprietors and firm members.....	1919	2,616	2,532	84	96.8	3.2	16 years of age and over.....	1919	73,984	68,252	5,732	92.3	7.7
	1914	2,682	2,620	62	97.7	2.3		1914	54,951	51,871	3,080	94.4	5.6
	1909	2,712	2,652	60	97.8	2.2		1909	56,532	53,520	3,012	94.7	5.3
Salaried officers of corporations....	1919	762	749	13	98.3	1.7	Under 16 years of age.....	1919	431	416	15	96.5	3.5
	1914	546	537	9	98.4	1.6		1914	657	604	53	91.9	8.1
	1909	469	462	7	98.5	1.5		1909	941	900	41	95.6	4.4
Superintendents and managers....	1919	2,221	2,183	38	98.3	1.7							
	1914	1,392	1,389	3	99.8	0.2							
	1909	1,433	1,427	6	99.6	0.4							

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Female.					Male.	Female.	
All industries.....	1919	74,415	91.7	7.7	0.6	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	1,267	99.6	0.3	0.1
	1914	55,608	93.3	5.5	1.2		1914	1,159	99.5	0.5	0.5
	1909	57,473	93.1	5.2	1.6	Mineral and soda waters.....	1919	431	94.9	2.3	2.8
Boxes, cigar.....	1919	673	51.3	48.7	0.0		1914	271	96.7	0.7	2.6
	1914	437	50.1	42.9	7.0	Minerals and earths, ground or otherwise treated.	1919	717	96.0	4.0	0.0
Boxes, wooden packing, except cigar boxes.	1919	1,025	83.9	15.8	0.3		1914	220	100.0	0.0	0.0
	1914	807	92.1	6.6	1.4	Printing and publishing, newspapers and periodicals.	1919	841	80.4	15.5	4.2
Bread and other bakery products.....	1919	737	79.8	18.0	1.4		1914	880	80.1	10.8	9.1
	1914	672	83.0	15.2	1.8	Shipbuilding, steel <sup>1</sup> .....	1919	7,838	99.8	0.2	0.0
Cars and general shop construction and re- pairs by steam-railroad companies.	1919	3,762	99.8	0.2	0.0		1914	486	99.7	0.2	0.1
	1914	2,311	99.8	0.1	(1)	Shipbuilding, wooden, including boat build- ing.	1919	3,361	99.6	0.4	0.4
Fertilizers.....	1919	1,390	96.5	3.4	0.1		1914	486	99.6	0.4	0.4
	1914	781	99.5	0.5	0.0	Tobacco, cigars and cigarettes.....	1919	12,393	68.9	31.1	0.1
Foundry and machine-shop products <sup>2</sup> .....	1919	879	99.8	0.1	0.1		1914	10,761	78.4	21.1	0.5
	1914	561	99.6	0.4	0.4	Turpentine and resin.....	1919	11,748	97.3	0.3	2.4
Gas, illuminating and heating.....	1919	418	97.4	2.6	0.0		1914	15,466	97.9	0.3	1.8
	1914	349	100.0	0.0	0.0	Wood distillation <sup>3</sup> .....	1919	412	99.8	0.2	0.0
Ice, manufactured.....	1919	1,412	98.4	1.6	0.1	All other industries.....	1919	4,053	82.5	16.8	0.7
	1914	760	99.9	0.1	0.1		1914	3,275	90.3	7.9	1.8
Lumber and timber products.....	1919	21,058	98.6	1.2	0.2						
	1914	16,392	99.1	0.3	0.6						

<sup>1</sup> Less than one-tenth of 1 per cent.<sup>2</sup> Includes "iron and steel, welding."<sup>3</sup> Not shown separately in 1914.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Jacksonville.....	7,168	2,816	1,988	6,718	2,596	1,836	441	202	128	9	18	24	\$31,212,494	\$10,147,679	\$6,722,276
Key West.....	2,313	2,037	2,431	1,794	1,612	1,906	508	394	508	11	31	17	6,520,351	3,389,026	3,665,364
Miami.....	708	.....	.....	656	.....	.....	51	.....	.....	1	.....	.....	2,722,612	.....	.....
Pensacola.....	4,538	835	940	4,522	782	832	55	13	27	9	40	21	18,006,919	1,832,327	1,837,402
St. Petersburg.....	215	.....	.....	201	.....	.....	14	.....	.....	.....	.....	.....	1,004,938	.....	.....
Tampa.....	13,079	7,055	6,786	9,769	5,455	5,443	3,297	1,523	1,128	13	77	215	42,461,377	14,038,917	13,803,751



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TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	74,029	55,647	56,016	94.7	96.3	92.3	July.....	75,135	57,775	56,182	96.2	100.0	92.6
February.....	73,007	55,851	56,414	93.4	96.7	93.0	August.....	71,298	55,924	56,276	91.2	96.8	92.8
March.....	73,427	56,695	56,596	94.0	98.0	93.3	September.....	75,326	55,071	58,635	96.4	95.3	95.7
April.....	71,888	57,066	56,371	92.0	98.8	92.9	October.....	77,708	55,351	59,487	99.4	95.8	98.1
May.....	73,014	56,968	56,858	93.4	98.6	93.7	November.....	77,108	53,087	60,661	98.7	90.2	100.0
June.....	72,900	56,764	56,195	93.3	98.3	92.6	December.....	78,140	52,194	60,357	100.0	90.3	99.9

<sup>1</sup> The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by **bold-faced** figures, minimum by *italic* figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

[The month of maximum employment for each industry is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	74,415.	74,029	73,007	73,427	71,888	73,014	72,900	75,135	71,298	75,326	77,708	77,108	78,140	91.2
Males.....	68,668	68,312	67,347	67,667	66,563	67,533	67,190	69,323	69,779	69,455	71,461	70,801	71,682	92.9
Females.....	5,747	5,717	5,660	5,860	5,325	5,481	5,710	5,812	4,519	5,871	6,244	6,307	6,458	75.4
Boxes, cigar.....	673	633	638	642	616	646	656	696	668	641	723	750	767	80.3
Boxes, wooden packing, except cigar boxes.....	1,025	1,057	1,025	1,105	1,136	1,057	1,034	890	856	994	1,042	1,033	1,071	75.4
Bread and other bakery products.....	737	707	704	713	711	697	681	686	735	742	783	841	844	80.7
Cars and general shop construction and repairs by steam-railroad companies.....	3,762	3,800	3,905	3,981	3,993	4,073	3,389	3,362	3,373	3,611	3,794	3,875	3,998	82.3
Fertilizers.....	1,390	1,281	1,300	1,663	1,566	1,467	1,478	1,229	1,070	1,249	1,292	1,387	1,618	64.3
Foundry and machine-shop products.....	872	790	792	812	898	807	879	889	861	875	857	857	978	80.8
Gas, illuminating and heating.....	418	456	443	427	422	404	392	396	395	399	420	423	439	86.0
Ice, manufactured.....	1,412	1,312	1,345	1,401	1,373	1,407	1,415	1,457	1,400	1,549	1,472	1,366	1,447	84.7
Lumber and timber products.....	21,058	19,194	18,872	19,501	19,745	20,183	20,200	22,076	22,612	22,021	23,193	22,541	22,555	81.4
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1,267	1,206	1,205	1,004	1,085	1,171	1,192	1,278	1,329	1,376	1,379	1,462	1,427	71.2
Mineral and soda waters.....	431	374	376	389	410	436	463	486	474	475	445	428	416	77.0
Minerals and earths, ground or otherwise treated.....	717	602	600	621	662	720	716	748	795	800	779	778	783	75.0
Printing and publishing, newspapers and periodicals.....	841	837	841	835	822	807	819	805	824	818	851	894	942	85.5
Shipbuilding, steel.....	7,838	8,533	8,267	7,781	7,696	7,542	7,332	7,685	8,165	7,802	7,709	7,841	7,813	85.8
Shipbuilding, wooden, including boat building.....	3,361	5,767	5,122	4,389	3,789	3,372	3,220	3,208	2,760	2,417	2,173	2,146	1,879	32.6
Tobacco, cigars and cigarettes.....	12,393	12,429	12,249	12,623	10,938	12,801	13,077	13,077	8,588	13,169	13,572	13,372	14,105	60.9
Turpentine and rosin.....	11,748	10,682	11,013	11,322	11,918	12,038	12,161	12,068	12,147	11,878	12,162	11,903	11,784	87.0
Wood distillation.....	412	346	354	382	390	404	389	457	436	445	426	412	503	68.8
All other industries.....	4,060	4,123	3,866	3,846	3,818	3,701	3,675	3,672	3,782	4,086	4,618	4,802	4,771	74.4
<i>Industries showing large proportion of females.</i>														
Boxes, cigar.....	328	306	298	306	294	312	315	346	329	290	373	384	333	75.5
Boxes, wooden packing, except cigar boxes.....	162	175	177	185	187	152	144	128	118	149	177	171	181	63.1
Bread and other bakery products.....	139	129	129	129	130	130	124	120	141	145	156	170	165	70.6
Printing and publishing, newspapers and periodicals.....	131	138	135	131	126	122	124	120	125	126	136	138	151	79.5
Tobacco, cigars and cigarettes.....	3,851	3,795	3,827	3,990	3,463	3,699	3,998	4,061	2,789	4,086	4,124	4,150	4,280	64.0
Total for cities.....	28,069	30,743	29,824	28,518	26,426	26,917	27,359	28,166	27,816	28,267	28,586	28,736	29,471	77.5
Males.....	23,694	26,308	25,411	23,997	22,486	22,818	22,985	23,534	23,462	23,685	23,890	24,098	24,634	77.7
Females.....	4,375	4,435	4,413	4,521	3,940	4,099	4,374	4,632	4,354	4,582	4,696	4,638	4,837	69.5
JACKSONVILLE.....	7,168	9,093	8,734	7,941	7,402	7,062	6,522	6,530	6,740	6,731	6,493	6,446	6,392	69.5
Males.....	6,724	8,625	8,284	7,620	7,005	6,680	6,152	6,111	6,263	6,253	5,996	5,941	5,852	67.8
Females.....	444	468	450	415	397	382	370	419	477	478	497	505	470	73.3
KEY WEST.....	2,313	2,170	2,208	2,326	2,316	2,349	2,378	2,416	2,437	1,864	2,340	2,477	2,475	75.3
Males.....	1,803	1,621	1,661	1,749	1,739	1,778	1,788	1,828	1,829	1,588	1,989	2,040	2,026	77.8
Females.....	510	549	547	577	577	571	590	588	608	276	351	437	449	45.4
MIAMI.....	708	660	682	684	655	651	680	685	685	700	767	808	829	78.6
Males.....	650	612	628	634	606	604	634	642	647	648	709	748	760	79.5
Females.....	52	48	54	50	49	47	46	43	38	52	58	60	69	62.3
PENSACOLA.....	4,586	4,955	4,922	4,228	4,055	4,158	4,287	4,545	4,510	4,628	4,710	5,003	5,031	80.6
Males.....	4,531	4,890	4,858	4,169	3,997	4,102	4,231	4,485	4,464	4,581	4,664	4,958	4,973	80.4
Females.....	55	65	64	59	58	56	56	60	46	47	46	45	58	69.2
ST. PETERSBURG.....	212	212	214	207	201	195	192	190	201	204	228	282	254	67.4
Males.....	201	200	202	194	189	183	182	180	190	191	210	253	238	71.1
Females.....	14	12	12	13	12	12	10	10	11	13	18	29	16	34.5
TAMPA.....	13,079	13,653	13,064	13,132	11,797	12,502	13,300	13,800	9,252	14,140	14,048	13,720	14,560	63.4
Males.....	9,779	10,360	9,808	9,725	8,950	9,471	9,998	10,288	7,059	10,421	10,322	10,158	10,785	65.5
Females.....	3,300	3,293	3,256	3,407	2,847	3,031	3,302	3,512	2,193	3,716	3,726	3,562	3,775	57.6

## MANUFACTURES—FLORIDA.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	74,415	6,710	1,026	19,890	5,170	8,435	4,834	23,704	4,046
	1914	55,608	( <sup>2</sup> )	( <sup>2</sup> )	9,379	2,672	7,583	1,502	24,739	9,733
	1909	57,473	( <sup>2</sup> )	( <sup>2</sup> )	13,214	4,379	6,467	1,505	22,766	9,142
Boxes, cigar.....	1919	673			102	48	523			
	1914	457	( <sup>2</sup> )	( <sup>2</sup> )	38		419			
Boxes, wooden packing, except cigar boxes.....	1919	1,025	2		25		5	183	815	
	1914	807							752	50
Bread and other bakery products.....	1919	737	2		107	24	146	105	223	130
	1914	672	( <sup>2</sup> )	( <sup>2</sup> )	33	4	81	67	369	118
Cars and general shop construction and repairs by steam-railroad companies.....	1919	3,762			2,822		110	827	3	
	1914	2,311	( <sup>2</sup> )	( <sup>2</sup> )	16		982		424	839
Fertilizers.....	1919	1,396	3		126	3	181	427	650	
	1914	781	( <sup>2</sup> )	( <sup>2</sup> )	4		271	109	390	7
Foundry and machine-shop products. <sup>2</sup> .....	1919	879	3		416	20	275	1	164	
	1914	561	( <sup>2</sup> )	( <sup>2</sup> )	38	8	385	20	95	6
Gas, illuminating and heating.....	1919	418			31	52	10	53	18	254
	1914	349					5	9	61	274
Ice, manufactured.....	1919	1,412	2		98	10	16	205	39	1,042
	1914	760	( <sup>2</sup> )	( <sup>2</sup> )	17	2	39	120	44	538
Lumber and timber products.....	1919	21,058	883	119	171	845	487	1,242	15,436	1,875
	1914	16,392	( <sup>2</sup> )	( <sup>2</sup> )	650	175	374	307	9,183	5,703
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	1,267	45		145	150	249	214	464	
	1914	1,159	( <sup>2</sup> )	( <sup>2</sup> )	58	5	509	101	449	37
Mineral and soda waters.....	1919	431	35	5	159	16	159	16	41	
	1914	271	( <sup>2</sup> )	( <sup>2</sup> )	47		115	21	83	5
Minerals and earths, ground or otherwise treated.....	1919	717						283	434	
	1914	220						16	204	
Printing and publishing, newspapers and periodicals.....	1919	841	12	7	624	25	126	35	12	
	1914	880	( <sup>2</sup> )	( <sup>2</sup> )	416	31	269	142	22	
Shipbuilding, steel. <sup>4</sup> .....	1919	7,838			7,713		125			
Shipbuilding, wooden, including boat building.....	1919	3,361	2		3,153	11	117		78	
	1914	486	( <sup>2</sup> )	( <sup>2</sup> )	342		110		34	
Tobacco, cigars and cigarettes.....	1919	12,393	1,620	1,102	1,821	2,417	2,976	648	1,421	388
	1914	10,761	( <sup>2</sup> )	( <sup>2</sup> )	1,247	861	2,706	189	4,260	1,498
Turpentine and rosin.....	1919	11,748	3,870	275	1,122	1,304	2,171	430	2,858	18
	1914	15,466	( <sup>2</sup> )	( <sup>2</sup> )	5,883	1,155	476	255	7,294	43
Wood distillation. <sup>4</sup> .....	1919	412		2				344		66
All other industries.....	1919	4,053	231	116	1,255	245	764	121	1,048	273
	1914	3,275	( <sup>2</sup> )	( <sup>2</sup> )	590	431	837	146	1,066	205
Total for cities.....	1919	28,060	1,701	725	13,479	2,854	4,286	1,327	2,422	1,275
	1914	12,743	( <sup>2</sup> )	( <sup>2</sup> )	1,813	908	4,183	602	3,485	1,752
JACKSONVILLE.....	1919	7,168	57	18	4,474	232	529	329	934	595
	1914	2,816	( <sup>2</sup> )	( <sup>2</sup> )	634	394	597	181	715	295
KEY WEST.....	1919	2,313	82	447	713	2	779	148	6	126
	1914	2,037	( <sup>2</sup> )	( <sup>2</sup> )	120	144	519	25	541	688
MIAMI. <sup>4</sup> .....	1919	708	62		272	30	165	157	8	14
PENSACOLA.....	1919	4,586	2		4,053	3	27	200	201	100
	1914	835	( <sup>2</sup> )	( <sup>2</sup> )	102	7	514	26	98	88
ST. PETERSBURG. <sup>4</sup> .....	1919	215			69	8	106	2	3	27
TAMPA.....	1919	13,079	1,498	260	3,898	2,579	2,680	491	1,270	403
	1914	7,055	( <sup>2</sup> )	( <sup>2</sup> )	957	363	2,553	370	2,131	681

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.<sup>3</sup> Includes "iron and steel, welding."<sup>4</sup> Not shown separately in 1914.

# MANUFACTURES—FLORIDA.

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TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries.....	2,582	74,415	242	1,041	2,518	685	8,181	361	11,592	97	6,813	101	15,810	40	14,038	11	7,307	4	8,156
Boxes, cigar.....	4	673	—	—	—	—	—	—	1	49	—	—	2	322	1	302	—	—	—
Boxes, wooden packing, except cigar boxes.....	20	1,025	—	4	11	4	67	3	116	5	338	4	493	—	—	—	—	—	—
Bread and other bakery products.....	183	737	40	114	243	24	237	3	109	2	148	—	—	—	—	—	—	—	—
Cars and general shop construction and repairs by steam-railroad companies.....	19	3,762	—	2	5	1	20	2	88	4	276	3	409	6	2,299	1	665	—	—
Fertilizers.....	24	1,390	—	8	21	4	54	4	167	1	76	7	1,072	—	—	—	—	—	—
Foundry and machine-shop products.....	64	872	3	25	62	28	230	9	299	4	281	—	—	—	—	—	—	—	—
Gas, illuminating and heating.....	14	418	—	3	10	9	117	—	1	52	1	239	—	—	—	—	—	—	—
Ice, manufactured.....	95	1,412	1	39	118	36	374	13	397	4	267	2	256	—	—	—	—	—	—
Lumber and timber products.....	469	21,058	8	172	444	146	1,800	63	2,085	23	1,724	36	5,667	15	5,466	6	3,872	—	—
Lumber, planing-mill products, not including planing mills connected with sawmills.....	63	1,267	1	18	52	19	239	23	810	1	64	1	102	—	—	—	—	—	—
Mineral and soda waters.....	185	431	6	70	199	18	182	2	50	—	—	—	—	—	—	—	—	—	—
Minerals and earths, ground or otherwise treated.....	5	717	—	—	—	—	—	—	—	2	153	3	564	—	—	—	—	—	—
Printing and publishing, newspapers and periodicals.....	160	841	29	99	256	25	238	5	165	1	68	1	114	—	—	—	—	—	—
Shipbuilding, steel.....	5	7,838	—	—	—	—	—	—	—	—	—	1	125	—	—	1	773	3	6,940
Shipbuilding, wooden, including boat building.....	68	3,361	3	33	66	10	146	5	164	3	227	4	740	2	663	2	1,355	—	—
Tobacco, cigars and cigarettes.....	280	12,393	68	98	223	40	404	24	722	13	885	22	3,793	13	4,508	1	642	1	1,216
Turpentine and rosin.....	452	11,748	7	41	144	197	2,744	172	5,384	22	1,501	11	1,446	2	529	—	—	—	—
Wood distillation.....	6	412	—	1	2	2	14	—	1	59	2	337	—	—	—	—	—	—	—
All other industries.....	546	4,060	76	305	662	121	1,315	32	987	10	694	1	131	1	271	—	—	—	—
Total for cities.....	758	28,069	94	328	756	179	1,915	72	2,352	27	1,865	33	5,669	17	5,774	5	3,435	3	6,303
JACKSONVILLE.....	244	7,168	27	104	258	64	745	29	1,005	6	462	8	1,363	2	542	4	2,793	—	—
KEY WEST.....	60	2,313	11	31	73	9	85	5	142	5	324	6	919	2	770	—	—	—	—
MIAMI.....	73	708	8	37	89	19	187	6	192	2	123	1	117	—	—	—	—	—	—
PENSACOLA.....	70	4,586	2	32	70	23	266	5	148	4	264	2	440	1	434	—	—	1	2,964
ST. PETERSBURG.....	39	215	3	22	46	13	148	1	21	—	—	—	—	—	—	—	—	—	—
TAMPA.....	263	13,079	43	102	220	51	484	26	844	10	692	16	2,830	12	4,028	1	642	2	3,339

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	2,582	2,518	2,159	74,415	55,008	57,473	\$213,326,811	\$81,112,291	\$72,889,650	\$120,046,587	\$47,296,603	\$46,761,380
Less than \$5,000.....	584	903	623	558	1,826	1,387	1,335,817	2,214,019	1,547,102	833,133	1,419,336	1,062,701
\$5,000 to \$20,000.....	825	1,007	871	4,152	11,493	11,393	9,101,052	10,656,555	9,818,056	5,638,991	7,001,129	7,255,477
\$20,000 to \$100,000.....	824	450	527	16,118	14,820	18,613	37,703,293	19,438,464	20,734,942	23,024,990	11,812,820	14,123,529
\$100,000 to \$500,000.....	268	132	134	21,585	25,206	23,509	69,667,326	29,473,385	36,332,890	34,648,907	24,017,676	21,369,589
\$500,000 to \$1,000,000.....	48	21	—	11,162	—	—	33,351,961	13,486,076	—	20,462,993	—	—
\$1,000,000 and over.....	33	5	4	20,840	2,254	2,571	68,167,362	5,843,792	4,459,609	36,037,573	3,045,642	2,950,084

## PER CENT DISTRIBUTION.

All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	22.6	35.9	28.9	0.7	3.3	2.4	0.6	2.7	2.1	0.7	3.0	2.3
\$5,000 to \$20,000.....	32.0	40.0	40.3	5.6	20.7	19.8	4.3	13.1	13.5	4.7	14.8	15.5
\$20,000 to \$100,000.....	31.9	17.9	24.4	21.7	26.7	32.4	17.7	24.0	28.4	19.1	25.0	30.2
\$100,000 to \$500,000.....	10.4	5.2	—	29.0	—	—	29.8	36.3	—	28.7	—	45.7
\$500,000 to \$1,000,000.....	1.9	0.8	—	15.0	45.3	40.9	15.6	16.6	49.8	17.0	60.8	—
\$1,000,000 and over.....	1.3	0.2	0.2	28.0	4.1	4.5	32.0	7.2	6.1	29.9	6.4	6.3

## MANUFACTURES—FLORIDA.

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919		1914		1919		1914		1919		1914		1919		1914	
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
BOXES, WOODEN PACKING, EXCEPT CIGAR BOXES.	20	13	100.0	100.0	1,025	807	100.0	100.0	\$2,539,732	\$932,554	100.0	100.0	\$1,414,182	\$607,181	100.0	100.0
Less than \$20,000	4	4	20.0	30.8	12	57	1.2	7.1	22,773	41,180	0.9	4.4	11,070	23,865	0.8	3.9
\$20,000 to \$100,000	8	5	40.0	38.5	295	272	28.8	33.7	452,055	240,099	17.8	25.7	270,307	192,043	19.1	31.6
\$100,000 to \$500,000	8	4	40.0	30.8	718	478	70.0	59.2	2,064,904	651,275	81.3	69.8	1,132,805	391,273	80.1	64.4
BREAD AND OTHER BAKERY PRODUCTS.	183	184	100.0	100.0	737	672	100.0	100.0	5,143,559	2,169,320	100.0	100.0	1,592,033	977,167	100.0	100.0
Less than \$5,000	43	73	23.5	39.7	12	69	1.6	10.3	109,014	199,317	2.1	9.2	38,203	91,931	2.4	9.4
\$5,000 to \$20,000	85	90	46.4	48.9	137	270	18.6	40.2	829,259	829,259	17.7	38.2	326,721	304,360	20.5	37.3
\$20,000 to \$100,000	45	18	24.6	9.8	254	187	34.5	27.8	1,073,401	615,570	32.5	28.4	546,880	283,302	34.3	29.0
\$100,000 to \$500,000	10	3	5.5	1.6	334	146	45.3	21.7	2,450,623	525,174	47.6	24.2	680,279	237,514	42.7	24.3
FERTILIZERS.	24	22	100.0	100.0	1,390	781	100.0	100.0	10,685,819	6,995,051	100.0	100.0	3,527,274	2,339,010	100.0	100.0
\$5,000 to \$20,000	14	3	16.7	13.6	18	17	0.6	2.2	43,983	43,712	0.4	0.6	116,770	26,103	0.5	1.1
\$20,000 to \$100,000	4	7	16.7	31.8	60	52	4.3	6.7	235,036	392,164	2.2	5.6	102,232	102,262	2.9	4.4
\$100,000 to \$500,000	10	8	41.7	36.4	557	712	40.1	91.2	2,991,092	2,192,177	28.0	31.3	905,167	2,210,045	27.4	94.5
\$1,000,000 and over	6	4	25.0	18.2	765		55.0		7,415,708	4,360,998	69.4	62.4	2,443,745		60.3	
FOUNDRY AND MACHINE-SHOP PRODUCTS.	70	56	100.0	100.0	879	561	100.0	100.0	3,540,227	1,127,354	100.0	100.0	2,015,894	694,014	100.0	100.0
Less than \$5,000	12	15	17.1	26.8	12	17	1.4	3.0	35,126	35,701	1.0	3.2	28,803	27,994	1.4	4.0
\$5,000 to \$20,000	23	28	32.9	50.0	76	164	8.6	29.2	229,068	276,569	6.5	24.5	171,039	201,690	8.5	29.1
\$20,000 to \$100,000	25	13	35.7	23.2	332	380	37.8	67.7	1,114,595	815,084	31.4	72.3	674,120	464,321	33.4	66.9
\$100,000 to \$500,000	10		14.3		459		52.2		2,170,438		61.2		1,141,932		56.6	
ICE, MANUFACTURED.	95	92	100.0	100.0	1,412	760	100.0	100.0	4,051,516	2,202,769	100.0	100.0	2,527,666	1,586,118	100.0	100.0
Less than \$5,000	12	13	12.6	14.1	23	32	1.6	4.2	38,063	46,500	0.9	2.1	21,101	27,382	0.8	1.7
\$5,000 to \$20,000	32	50	33.7	54.3	136	247	9.6	32.5	378,950	548,352	9.4	24.9	222,395	384,087	8.8	24.3
\$20,000 to \$100,000	42	26	44.2	28.3	664	319	47.0	42.0	1,824,910	1,139,428	45.0	51.7	1,195,291	802,702	47.3	50.6
\$100,000 to \$500,000	9	3	9.5	3.3	589	162	41.7	21.3	1,809,593	468,483	44.7	21.3	1,088,870	371,047	43.1	23.4
LUMBER AND TIMBER PRODUCTS.	469	412	100.0	100.0	21,058	16,392	100.0	100.0	42,598,491	17,574,752	100.0	100.0	29,065,233	11,760,559	100.0	100.0
Less than \$5,000	108	145	23.0	35.2	178	450	0.8	2.7	251,209	328,028	0.6	1.9	179,639	234,909	0.6	2.0
\$5,000 to \$20,000	144	138	30.7	33.3	1,025	1,617	4.9	9.9	1,589,600	1,523,109	3.7	8.7	1,152,456	1,085,266	4.0	9.2
\$20,000 to \$100,000	132	83	28.1	20.1	3,030	3,870	14.4	23.6	5,608,052	4,076,531	13.2	23.2	3,955,533	2,644,129	13.6	22.5
\$100,000 to \$1,000,000	64	41	13.6	10.0	8,139	10,455	38.6	63.8	16,156,417	8,399,199	37.9	47.8	10,804,221	7,706,255	37.2	66.3
\$1,000,000 and over	13	8	2.8	1.2	4,151		19.7		9,223,404	3,247,885	21.7	18.5	6,939,233		23.9	
	8		1.7		4,635		21.5		9,774,659		22.9		6,034,151		20.8	
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.	63	82	100.0	100.0	1,267	1,159	100.0	100.0	5,270,931	2,949,592	100.0	100.0	2,153,741	1,162,916	100.0	100.0
Less than \$5,000	6	19	9.5	23.2	4	31	0.3	2.7	12,482	50,637	0.2	1.7	6,809	29,280	0.3	2.5
\$5,000 to \$20,000	11	25	17.5	30.5	40	163	3.2	14.1	112,496	277,072	2.1	9.4	64,236	142,516	3.0	12.3
\$20,000 to \$100,000	25	32	39.7	39.0	436	550	34.4	47.5	1,290,562	1,607,105	24.5	54.5	646,670	627,684	30.0	54.0
\$100,000 to \$500,000	21	6	33.3	7.3	787	415	62.1	35.8	3,855,891	1,014,778	73.1	34.4	1,436,026	363,436	66.7	31.3
MINERAL AND SODA WATERS.	105	114	100.0	100.0	431	271	100.0	100.0	2,690,090	1,049,518	100.0	100.0	1,185,261	492,401	100.0	100.0
Less than \$5,000	24	58	22.8	50.9	22	69	5.1	25.5	60,249	150,633	2.2	14.4	31,438	82,262	2.7	16.7
\$5,000 to \$20,000	46	44	43.8	38.6	120	117	27.8	43.2	628,487	404,005	19.6	38.5	247,212	199,754	20.9	40.6
\$20,000 to \$100,000	30	12	28.6	10.5	202	85	46.9	31.4	1,218,298	494,880	45.3	47.2	524,060	210,385	44.2	42.7
\$100,000 to \$500,000	5		4.8		87		20.2		883,056		32.8		382,551		32.3	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.	160	161	100.0	100.0	841	880	100.0	100.0	4,100,841	2,233,936	100.0	100.0	3,001,212	1,700,317	100.0	100.0
Less than \$5,000	55	88	34.4	54.7	43	139	5.1	15.8	131,615	240,553	3.2	10.8	99,716	197,207	3.3	11.6
\$5,000 to \$20,000	76	57	47.5	35.4	248	265	29.5	30.1	697,717	553,585	17.0	24.8	529,953	465,057	17.7	26.8
\$20,000 to \$100,000	21	12	13.1	7.5	188	186	22.4	21.1	835,588	498,228	20.4	22.3	655,120	394,534	21.8	23.2
\$100,000 to \$500,000	8	4	5.0	2.5	362	290	43.0	33.0	2,435,921	941,570	59.4	42.1	1,718,149	653,519	57.2	38.4
SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING.	68	65	100.0	100.0	3,361	486	100.0	100.0	8,428,253	804,399	100.0	100.0	5,212,068	523,998	100.0	100.0
Less than \$5,000	19	36	27.9	55.4	16	40	0.5	8.2	47,201	94,575	0.6	11.8	37,518	62,744	0.7	12.0
\$5,000 to \$20,000	19	25	27.9	38.5	67	127	2.0	26.1	210,189	223,843	2.5	27.8	140,852	151,122	2.7	28.8
\$20,000 to \$100,000	18	4	26.5	6.2	241	319	7.2	65.6	725,194	465,981	8.6	60.4	310,132	6,010	9.5	59.2
\$100,000 to \$500,000	8		11.8		1,039		30.9		2,550,587		30.3		1,362,874		26.1	
\$1,000,000 and over	4		5.9		1,998		59.4		4,895,082		58.1		3,173,350		60.9	
TOBACCO, CIGARS AND CIGARETTES.	280	270	100.0	100.0	12,393	10,761	100.0	100.0	37,926,394	19,385,659	100.0	100.0	22,392,139	11,646,998	100.0	100.0
Less than \$5,000	120	154	42.9	57.0	92	235	0.7	2.2	220,871	310,355	0.6	1.6	118,681	191,036	0.5	1.6
\$5,000 to \$20,000	67	50	28.9	18.5	346	366	2.8	3.4	701,245	511,733	1.8	2.6	399,725	309,185	1.8	2.7
\$20,000 to \$100,000	47	25	16.8	9.3	1,850	708	10.9	6.6	3,239,476	1,193,789	8.5	6.2	1,952,240	726,021	8.7	6.2
\$100,000 to \$500,000	20	27	7.1	10.0	2,198	2,952	17.7	87.8	5,748,351	7,423,542	15.2	38.3	3,310,117	2,102,756	14.8	89.5
\$500,000 to \$1,000,000	17	14	6.1	5.2	3,776		30.5		12,050,850	9,946,240	31.8	51.3	7,281,809		32.5	
\$1,000,000 and over	9		3.2		4,631		37.4		15,066,102		42.1		9,329,567		41.7	
TURPENTINE AND ROSIN.	452	508	100.0	100.0	11,748	15,466	100.0	100.0	21,508,553	9,573,083	100.0	100.0	15,649,729	6,989,518	100.0	100.0
Less than \$5,000	14	47	3.1	9.3	19	414	0.2	2.7	34,547	165,844	0.2	1.7	23,601	111,144	0.2	1.6
\$5,000 to \$20,000	114	329	25.2	64.8	1,159	7,245	9.8	46.8	1,526,089	3,790,797	7.1	39.3	1,125,463	2,701,012	7.2	36.6
\$20,000 to \$100,000	282	125	62.4	24.0	7,193	6,361	61.2	41.1	12,011,079	4,595,655	55.8	48.0	8,857,097	3,417,759	56.6	48.9
\$100,000 to \$500,000	42	7	9.3	1.4	3,381	1,446	28.8	9.3	7,936,838	1,050,787	36.9	11.0	5,643,568	789,603	36.1	10.9

1 Includes the group "Less than \$5,000."

2 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

3 Includes the group "\$500,000 to \$1,000,000."

4 Includes "Iron and steel, welding."

5 Includes the group "\$100,000 to \$500,000."

6 Includes the group "\$1,000,000 and over."

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TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
JACKSONVILLE.....	244	7,168	100.0	\$31,212,404	100.0	\$13,612,659	100.0	PENSACOLA.....	70	4,586	100.0	\$18,006,919	100.0	\$7,771,857	100.0
Less than \$5,000.....	54	37	0.5	116,531	0.4	79,443	0.6	Less than \$5,000.....	14	20	0.4	36,081	0.2	23,930	0.3
\$5,000 to \$20,000.....	69	244	3.4	753,953	2.4	495,827	3.6	\$5,000 to \$20,000.....	19	67	1.5	256,545	1.4	139,280	1.8
\$20,000 to \$100,000.....	69	937	13.1	3,203,788	10.3	1,832,254	13.5	\$20,000 to \$100,000.....	20	188	4.1	980,206	5.4	511,147	6.6
\$100,000 to \$500,000.....	37	1,538	21.5	8,514,045	28.2	3,591,809	26.4	\$100,000 and over.....	17	4,311	94.0	16,734,087	92.9	7,097,500	91.3
\$500,000 to \$1,000,000.....	6	912	12.7	4,509,426	14.4	2,009,345	14.8	ST. PETERSBURG.....	30	215	100.0	1,004,938	100.0	490,152	100.0
\$1,000,000 and over.....	9	3,500	48.8	13,813,851	44.3	5,602,981	41.2	Less than \$5,000.....	10	7	3.3	29,407	2.9	15,804	3.2
KEY WEST.....	69	2,313	100.0	6,520,351	100.0	3,744,168	100.0	\$5,000 to \$20,000.....	15	45	20.9	179,650	17.9	94,141	19.2
Less than \$5,000.....	22	17	0.7	37,838	0.6	22,584	0.6	\$20,000 to \$100,000.....	14	163	75.8	795,881	79.2	380,147	77.6
\$5,000 to \$20,000.....	19	99	4.3	220,622	3.4	126,443	3.4	TAMPA.....	263	13,079	100.0	42,461,377	100.0	25,188,234	100.0
\$20,000 to \$100,000.....	15	205	8.9	640,934	9.8	365,777	9.8	Less than \$5,000.....	84	71	0.5	179,694	0.4	99,892	0.4
\$100,000 and over.....	13	1,992	86.1	5,620,957	86.2	3,229,164	86.2	\$5,000 to \$20,000.....	54	189	1.4	645,368	1.5	353,108	1.4
MIAMI.....	73	708	100.0	2,722,612	100.0	1,499,431	100.0	\$20,000 to \$100,000.....	73	1,046	8.0	3,048,369	7.2	1,488,146	5.9
Less than \$5,000.....	18	14	2.0	53,039	1.9	38,522	2.6	\$100,000 to \$500,000.....	25	1,554	11.9	5,916,609	13.9	3,257,434	12.9
\$5,000 to \$20,000.....	25	80	11.3	263,241	9.7	158,469	10.6	\$500,000 to \$1,000,000.....	18	3,988	30.5	12,355,446	29.1	7,538,941	29.9
\$20,000 to \$100,000.....	23	265	37.4	1,019,875	37.5	544,623	36.3	\$1,000,000 and over.....	9	6,231	47.6	20,315,951	47.8	12,450,713	49.4
\$100,000 to \$500,000.....	7	349	49.3	1,386,457	50.9	757,817	50.5								

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- u-als.	Cor- pora- tions.	All oth- ers.		Indi- vid- u-als.	Cor- pora- tions.	All oth- ers.	Indi- vid- u-als.	Cor- pora- tions.	All oth- ers.		Indi- vid- u-als.	Cor- pora- tions.	All oth- ers.	Indi- vid- u-als.	Cor- pora- tions.	All oth- ers.				
All industries.....	1919 1914 1909	1,229 1,210 951	750 628 501	603 680 707	74,415 55,608 57,473	9,209 9,004 9,520	54,694 34,970 31,589	10,512 11,634 16,364	12.4 16.2 16.6	78.5 62.9 55.0	14.1 20.9 28.4	\$213,326,811 81,112,291 72,889,659	\$22,290,515 11,082,871 10,807,500	\$166,210,162 58,337,964 45,815,852	\$24,826,134 11,691,456 16,266,307	10.4 13.7 14.8	77.9 71.9 62.9	11.6 14.4 22.3				
Boxes, wooden packing, except cigar boxes.	1919 1914	5 4	10 7	5 2	1,025 807	177 132	571 480	277	17.3 40.5	55.7 59.5	27.0	2,539,732 932,554	432,227 1,352,611	1,489,072 579,943	618,433	17.0 37.8	58.6 62.2	24.4				
Bread and other bakery products.	1919 1914	133 144	19 8	31 32	737 672	343 395	307 177	87 100	46.5 58.8	41.7 26.3	11.8	5,143,559 2,169,320	2,499,115 1,322,267	2,017,921 491,551	626,523 355,502	48.6 61.0	39.2 22.7	12.2 16.4				
Cars and generalshop con- struction and repairs by steam-railroad com- panies.	1919 1914	..... .....	19 13	..... .....	3,762 2,311	..... .....	3,762 2,311	..... .....	..... .....	100.0 100.0	.....	8,468,318 2,589,930	..... .....	8,468,318 2,589,930	..... .....	..... .....	100.0 100.0	.....				
Fertilizers.....	1919 1914	..... 2	22 19	2 1	1,390 781	..... 118	1,390 763	.....	..... 2.3	100.0 97.7	.....	10,685,819 6,995,051	..... 163,095	10,685,819 6,931,956	.....	..... 0.9	100.0 99.1	.....				
Foundry and machine- shop products. <sup>2</sup>	1919 1914	34 24	25 18	11 14	879 561	134 101	691 364	54 96	15.2 18.0	78.6 64.9	6.1 17.1	3,549,227 1,127,354	471,279 216,228	2,849,914 733,393	228,034 177,733	13.3 19.2	80.3 65.1	6.4 15.2				
Ice, manufactured.....	1919 1914	20 14	63 66	12 12	1,412 40	102 58	1,218 50	92 52	7.2 7.6	86.3 5.5	6.5 6.8	4,051,516 2,262,769	271,217 138,364	5,611 9,727	284,694 144,678	..... 3	86.3 87.1	.....				
Lumber and timber products.	1919 1914	225 210	17 101	127 101	21,058 16,392	2,191 2,288	16,381 12,124	2,486 1,980	10.4 14.0	77.8 74.0	11.8 12.1	42,598,491 17,574,752	4,009,830 2,198,273	33,139,787 13,488,902	5,448,874 1,887,577	9.4 12.5	77.8 69.8	.....				
Lumber, planing - mill products, not including planing mills con- nected with sawmills.	1919 1914	23 34	28 28	12 20	1,267 1,159	235 222	844 780	188 157	18.5 19.2	66.6 67.3	14.8 13.5	5,270,931 2,949,592	1,043,000 558,412	3,514,004 1,952,733	713,927 438,447	19.8 18.9	66.7 66.2	13.5 14.9				
Mineral and soda waters..	1919 1914	54 64	30 22	21 28	431 271	150 100	219 110	62 61	34.8 36.9	50.8 40.6	14.4 22.5	2,690,090 1,049,518	792,556 336,014	1,617,302 523,931	280,232 189,573	29.5 32.0	60.1 49.9	10.4 18.1				
Printing and publishing, newspapers and period- icals.	1919 1914	82 78	56 57	22 26	841 880	189 195	583 543	69 142	22.5 22.2	69.3 61.7	8.2 16.1	4,100,841 2,233,936	504,705 375,784	3,354,656 1,574,245	241,480 283,957	12.3 16.8	81.8 70.5	5.9 12.7				
Shipbuilding, wooden, in- cluding boat building.	1919 1914	38 48	21 5	9 12	3,361 486	132 127	2,636 326	593 33	3.9 26.1	78.4 67.1	17.6 6.8	8,428,253 804,899	395,979 244,042	6,869,252 490,281	1,163,022 64,076	4.7 30.3	81.5 61.7	13.8 8.0				
Slaughtering and meat packing.	1919 1914	1 6	5 3	2 2	343 54	120 117	328 37	.....	5.7 31.5	94.3 68.5	.....	5,316,186 1,325,386	1,544,181 1,325,204	4,772,005 600,182	.....	10.2 35.1	89.8 64.9	.....				
Tobacco, cigars and ciga- rettes.	1919 1914	161 159	53 52	66 59	12,393 10,761	900 1,159	9,064 8,196	1,529 1,406	7.3 10.8	80.4 76.2	12.3 13.1	37,926,394 19,355,659	2,253,934 1,653,615	31,933,448 15,338,842	3,739,012 2,393,202	5.9 8.5	84.2 70.1	9.9 12.3				
Turpentine and resin.....	1919 1914	175 153	107 100	170 255	11,748 15,466	3,502 3,425	4,257 5,292	3,989 6,749	29.8 22.1	36.2 34.2	34.0 43.6	21,508,553 9,573,083	5,692,083 1,901,374	8,428,667 3,588,009	7,387,803 4,023,700	26.5 20.5	39.2 37.5	34.3 42.0				

<sup>1</sup> Includes the group "All others."

<sup>2</sup> Includes "iron and steel, welding."

## MANUFACTURES—FLORIDA.

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

TABLE 14.—CHARACTER OF OWNERSHIP.																				
INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.						
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.				
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		
Total for cities.....	1919	359	249	150	28,099	1,912	23,294	2,863	6.8	83.0	10.2	\$101,928,691	\$7,026,904	\$86,411,128	\$8,490,659	6.9	84.8	8.3		
	1914	246	148	110	12,743	1,540	9,458	1,745	12.1	74.2	13.7	29,407,949	2,927,446	23,140,784	3,339,719	10.0	78.7	11.4		
JACKSONVILLE.....	1919	105	102	37	7,168	511	6,117	540	7.1	85.3	7.5	31,212,494	1,912,940	27,439,095	1,860,459	6.1	87.9	6.0		
	1914	79	65	29	2,816	349	2,369	98	12.4	84.1	3.5	10,147,679	712,743	9,195,496	239,440	7.0	90.6	2.4		
KEY WEST.....	1919	36	19	14	2,313	256	1,910	147	11.1	82.6	6.4	6,520,351	557,513	5,566,480	396,358	8.6	85.4	6.1		
	1914	33	14	18	2,037	76	1,629	332	3.7	80.0	16.3	3,389,026	144,028	2,777,174	467,824	4.2	81.9	13.8		
MIAMI.....	1919	42	17	14	708	215	404	89	30.4	57.1	12.6	2,722,612	658,359	1,628,227	436,026	24.2	59.8	16.0		
PENSACOLA.....	1919	30	32	8	4,586	138	4,108	340	3.0	89.6	7.4	18,006,919	759,899	16,403,900	843,120	4.2	91.1	4.7		
	1914	29	21	14	4,835	122	625	88	14.6	74.8	10.5	1,832,327	345,689	1,224,775	261,863	18.9	66.8	14.3		
ST. PETERSBURG.....	1919	21	10	8	215	57	83	75	26.5	38.6	34.9	1,004,038	398,800	352,459	253,679	39.7	35.1	25.2		
TAMPA.....	1919	125	69	69	13,079	735	10,672	1,672	5.6	81.6	12.8	42,461,377	2,739,393	35,020,967	4,701,017	6.5	82.5	11.1		
	1914	105	48	49	7,055	993	4,835	1,227	14.1	68.5	17.4	14,038,917	1,724,988	9,943,339	2,370,592	12.3	70.8	16.9		

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

	Cen- sus year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.						THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		Number or amount.	Per cent of aggre- gate.
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.		
Number of places.....	1919 1914 1909	..... ..... .....	6 4 4	..... ..... .....	2 1 2	..... ..... .....	4 3 2	..... ..... .....	.....	.....
Population <sup>1</sup> .....	1920 1915 1910	968,470 848,111 752,619	236,758 165,601 138,403	24.4 19.5 18.4	32,986 21,150 42,927	3.4 2.5 5.7	203,772 144,541 95,481	21.0 17.0 12.7	731,712 682,420 614,211	75.6 80.5 81.6
Number of establishments.....	1919 1914 1909	2,582 2,518 2,159	758 504 411	29.4 20.0 19.0	108 65 115	4.2 2.6 5.3	650 439 296	25.2 17.4 13.7	1,824 2,014 1,748	70.6 80.0 81.0
Average number of wage earners.....	1919 1914 1909	74,415 55,608 57,473	28,069 12,743 12,145	37.7 22.9 21.1	2,528 2,037 3,371	3.4 3.7 5.9	25,541 10,706 8,774	34.3 19.3 15.3	46,346 42,865 45,328	62.3 77.1 78.9
Value of products.....	1919 1914 1909	\$213,326,811 81,112,291 72,889,659	\$101,928,691 29,407,949 20,328,853	47.8 36.3 36.1	\$7,525,289 3,389,026 5,802,826	3.5 4.2 8.0	\$94,403,402 26,018,923 20,526,027	44.3 32.1 28.2	\$111,398,120 51,704,342 46,560,806	52.2 63.7 63.9
Value added by manufacture.....	1919 1914 1909	120,646,587 47,296,603 46,761,380	52,306,501 15,711,825 13,970,818	43.4 33.2 29.0	4,234,320 1,969,947 3,300,866	3.5 4.2 7.1	48,072,181 13,741,878 10,075,952	39.8 29.1 22.8	68,340,086 31,584,778 32,784,562	56.6 66.8 70.1

<sup>1</sup> Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

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TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
JACKSONVILLE.					TAMPA.				
Shipbuilding, wooden, including boat building.....	\$4,519,391	53.6	( <sup>2</sup> )	.....	Tobacco, cigars and cigarettes.....	\$28,472,994	75.1	\$18,108,321	174.7
Bread and other bakery products.....	1,781,486	34.6	\$1,121,265	169.8	Printing and publishing, newspapers and periodicals.....	980,834	23.9	590,512	151.3
Foundry and machine-shop products.....	1,268,314	36.2	1,116,657	736.3	Bread and other bakery products.....	593,775	11.5	361,945	156.1
Printing and publishing, newspapers and periodicals.....	1,144,311	27.9	487,289	74.2	Lumber, planing-mill products, not including planing mills connected with sawmills.....	557,076	10.6	222,083	66.2
Tobacco, cigars.....	1,068,607	2.8	659,427	161.2	Ice, manufactured.....	428,289	10.6	246,973	136.2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	906,484	17.2	( <sup>2</sup> )	.....	Foundry and machine-shop products.....	341,121	9.7	-2,701	-0.8
Printing and publishing, book and job.....	638,305	42.1	234,781	58.2	Confectionery and ice cream.....	339,097	30.5	226,924	202.3
Mineral and carbonated waters.....	614,626	22.8	473,482	335.5	Coffee, roasting and grinding.....	309,467	19.3	84,037	37.3
Patent medicines and compounds.....	601,765	31.5	( <sup>2</sup> )	.....	Boxes, cigar.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Turpentine and rosin.....	448,634	2.1	.....	.....	Gas, illuminating and heating.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Copper, tin, and sheet-iron work.....	307,051	56.8	243,013	379.5	Liquors, malt.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Bags, other than paper, not including bags made in textile mills.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....	Mineral and carbonated waters.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Cars and general shop construction and repairs by steam-railroad companies.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....	Shipbuilding, steel, new vessels.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Coffee, roasting and grinding.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....	Shipbuilding, wooden, including boat building.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....
Confectionery and ice cream.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Cooperage, hogsheads and barrels.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Fertilizers.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Food preparations, sweetening sirups other than cane.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Gas, illuminating and heating.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Ice, manufactured.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Oil and cake, cottonseed.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Shipbuilding, concrete.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Slaughtering and meat packing.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					
Wood preserving.....	( <sup>2</sup> )	.....	( <sup>2</sup> )	.....					

<sup>1</sup> A minus sign (—) denotes decrease.

<sup>2</sup> Figures can not be shown without disclosing individual operations.

TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total.....	4,597	3,166	2,445	139,456	100,071	89,816	100.0	100.0	100.0
Owned.....	1,992	1,966	2,044	116,436	93,586	86,376	83.5	93.5	96.2
Steam <sup>1</sup> .....	1,516	1,433	1,783	111,487	88,939	84,708	79.9	88.9	94.3
Engines.....	1,477	( <sup>2</sup> )	( <sup>2</sup> )	105,944	( <sup>2</sup> )	( <sup>2</sup> )	76.0	( <sup>2</sup> )	( <sup>2</sup> )
Turbines.....	39	( <sup>2</sup> )	( <sup>2</sup> )	5,543	( <sup>2</sup> )	( <sup>2</sup> )	4.0	( <sup>2</sup> )	( <sup>2</sup> )
Internal-combustion engines.....	461	521	250	4,706	4,464	1,497	3.4	4.5	1.7
Water.....	15	12	11	243	183	171	0.2	0.2	0.2
Water wheels and turbines.....	13	6	10	227	128	168	0.2	0.1	0.2
Water motors.....	2	6	1	16	55	3	( <sup>2</sup> )	0.1	( <sup>2</sup> )
Rented.....	2,605	1,200	401	23,020	6,485	3,440	16.5	6.5	3.8
Electric.....	2,605	1,200	401	22,655	6,406	3,353	16.2	6.4	3.7
Other.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	365	79	87	0.3	0.1	0.1
Electric.....	3,131	1,523	579	35,135	12,888	7,503	100.0	100.0	100.0
Rented.....	2,605	1,200	401	22,655	6,406	3,353	64.5	49.7	44.3
Generated by establishments reporting.....	526	323	178	12,480	6,482	4,210	35.5	50.3	55.7

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head "Other" owned power.

<sup>2</sup> Not reported separately.

<sup>3</sup> Less than one-tenth of 1 per cent.

## MANUFACTURES—FLORIDA.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries..... 1919..	5,110	262,577	36,384	393,754	28,576	2,725
..... 1914..	16,489	143,553	17,522	141,374	(1)	9,560
Per cent of increase <sup>2</sup> .....	-69.0	82.9	107.6	198.7	(1)	116.8
Cars and general shop construction and repairs by steam-railroad companies.....		121,359	160	30,324		
Fertilizers.....	127	8,526		19,435	2,623	
Gas, illuminating and heating.....	3,360	38,473	19,198	48,867	8,607	
Ice, manufactured.....	9	38,713	777	146,605	1,848	1,329
Minerals and earths, ground or otherwise treated.....	100	12,857		79,642	462	
Shipbuilding, steel.....		14,502	1,733	27,170	1,313	
Slaughtering and meat packing.....		1,370	8,199	25	80	
Wood distillation.....		3,579		22,467	6,174	
All other industries.....	1,514	23,198	6,317	19,219	7,469	19,405
Total for cities.....	4,248	123,474	37,757	150,475	9,425	14,882
JACKSONVILLE.....	3,824	100,686	18,275	25,096	457	8,410
KEY WEST.....	1	35	1,194	5,356		198
MIAMI.....	384	421	2,001	17,147		850
PENSACOLA.....	4	20,826	3,019	21,057		482
ST. PETERSBURG.....	5	565	1,454	5,289		1,447
TAMPA.....	30	941	4,214	77,530	8,968	3,495

<sup>1</sup> Included in figures for fuel oils.<sup>2</sup> A minus sign (—) denotes decrease.

## SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for five of these industries in Florida are here presented.

**Lumber and timber products (Table 19).**—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The relative importance of Florida as a lumber-producing state has been increasing. In 1909 this state ranked seventeenth among the states in the production of lumber; in 1914, fifteenth; and in 1919, tenth. The largest cut reported for the state, however, was in 1909, the production for 1919 as compared with 1909 showing a decrease of 5.4 per cent.

In 1919 the cut, by species, was reported as follows: Yellow pine, 1,004,766,000 feet, or 88.3 per cent of the total cut of the state, and cypress 120,433,000 feet, or 10.6 per cent. The hardwoods contributed 12,233,000 feet, or 1.1 per cent, the principal species being gum, ash, hickory, tupelo, cottonwood, and oak.

TABLE 19.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY. <sup>1</sup>		
	1919	1914	1909
Lumber.....M feet b. m..	1,137,432	1,073,821	1,201,734
Lath.....thousands..	76,402	(2)	55,741
Shingles.....thousands..	128,286	(2)	233,206

<sup>1</sup> The output of custom mills is included in 1919 and 1909, but not in 1914.  
<sup>2</sup> Not reported.

**Shipbuilding, including boat building (Tables 20 and 21).**—This industry includes the building of steel and wooden vessels, as well as small craft, and the repair of such vessels. Comparisons of the 1919 figures for this industry, unlike those for any other

for which totals are presented, are made with that of the special census for shipbuilding, 1916.

The number and tonnage of all vessels launched in 1919 and 1916 are shown, by classes, in Table 20.

TABLE 20.—SHIPBUILDING, INCLUDING BOAT BUILDING—NUMBER AND TONNAGE: 1919 AND 1916.

PRODUCT.	1919		1916	
	Num- ber.	Gross tonnage.	Num- ber.	Gross tonnage.
Vessels of 5 gross tons and over launched during the year.....	62	109,553	45	6,614
Steel—				
Steam.....	15	81,381	13	1,884
Sail.....	1	460		
Wooden—				
Steam.....	6	11,515	1	20
Motor.....	17	2,183	10	161
Sail.....	6	3,321	5	41
Unrigged.....	17	10,690	26	4,568
Power boats of less than 5 gross tons....	90		157	

<sup>1</sup> Includes 1 motor vessel of 1 gross ton.

The value of work done upon vessels and boats of all kinds during 1919 and 1916 is shown in Table 21.

TABLE 21.—SHIPBUILDING, INCLUDING BOAT BUILDING—VALUE: 1919 AND 1916.

	1919	1916
Total value of work.....	\$32,662,379	\$1,796,519
Work done during the year on new vessels and boats....	29,637,040	670,539
Vessels of 5 gross tons and over.....	128,523,419	592,359
Steel.....	23,939,848	(2)
Wood.....	5,523,571	(1)
Boats of less than 5 gross tons.....	113,621	77,971
Power boats of all kinds.....	80,317	72,670
Sailboats, rowboats, etc.....	27,304	5,301
Repair work.....	2,777,261	913,678
All other.....	248,078	211,011

<sup>1</sup> Includes 1 establishment engaged in the construction of concrete vessels.  
<sup>2</sup> Not shown separately to avoid disclosure of individual operations.

The total number of vessels of 5 gross tons and over launched increased by only 17 from 1916 to 1919, but



there was a tremendous increase in gross tonnage during the same period, which occurred mostly in steel vessels operated by steam power. Most of the steel vessels constructed were for freight service, and several of them exceeded 6,000 gross tonnage.

All types of craft increased both in number and tonnage since 1916, except unrigged vessels and power boats of less than 5 gross tons, which decreased in number.

**Turpentine and rosin (Table 22).**—Florida has been the leading state in the production of these products for all years for which records are available since 1904. The quantities and values of turpentine and rosin produced by 452 establishments in 1919, 508 in 1914, and 593 in 1909 are shown in Table 22.

TABLE 22.—TURPENTINE AND ROSIN: 1919, 1914, AND 1909.

PRODUCT.	1919	1914	1909
Total value.....	\$21,508,553	\$9,573,083	\$11,937,518
Spirits of turpentine:			
Gallons.....	6,992,489	12,363,232	13,809,785
Value.....	\$8,238,251	\$4,820,679	\$5,817,478
Rosin:			
Barrels (280 pounds).....	868,628	1,310,307	1,555,749
Value.....	\$13,088,444	\$4,695,561	\$6,057,524
All other products, value.....	\$181,858	\$58,843	\$32,516

The quantities of turpentine and rosin produced decreased for both periods shown in the table, the decrease from 1914 to 1919 being 43.4 per cent for turpentine and 33.7 per cent for rosin, but, on account of the high prices of these products prevailing in 1919, the total value increased 124.7 per cent.

The working unit in the gathering of crude gum is called a crop, which consists of 10,500 boxes or cups. In 1919 there were 5,410 crops worked in the state. Of these, 985 were from "virgin" trees, or trees worked the first year; 954 from "yearling," or trees worked the second year; and 3,471 from "pulling," or trees worked the third and subsequent years. Of the foregoing, 2,284 were worked from back-boxed timber—419 "virgin," 402 "yearling," and 1,463 "pulling."

The system in use for gathering crude gum is changing from the box system to the cup system. In 1909, 11.2 per cent of the total number of crops was gathered by the cup system; in 1914, 62.9 per cent; and in 1919, 84.9 per cent. The total number of crops reported for each year was 9,923 for 1909, 8,950 for 1914, and 5,410 for 1919.

**Fertilizers (Table 23).** This table shows the quantities and values of the chief products of the fertilizer industry in Florida in 1919, 1914, and 1909. Measured by value of products, the state ranked ninth among the states in 1919 and in 1914, and eleventh in 1909. The increase in quantity production, 1914 to 1919, was but 3.7 per cent, though the increase in

fertilizer values was 59 per cent, the average ton value being \$39.14 in 1919, as compared with \$25.53 per ton in 1914, and \$23.05 per ton in 1909.

TABLE 23.—FERTILIZERS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$10,685,819	\$6,995,051	\$3,878,290
Fertilizers:			
Tons.....	254,556	1,245,449	155,852
Value.....	\$9,904,055	\$6,266,201	\$3,592,882
Complete and ammoniated fertilizers—			
Tons.....	175,746	109,606	98,322
Value.....	\$8,618,976	\$5,696,460	\$2,877,046
Superphosphates—			
Tons.....	68,902	36,701	46,570
Value.....	\$1,127,428	\$307,272	\$393,302
All other fertilizers—			
Tons.....	9,908	9,142	10,960
Value.....	\$217,651	\$262,469	\$321,934
All other products, value.....	\$721,764	\$728,850	\$285,414

<sup>1</sup> In addition, there were produced by cottonseed-oil mills 1,057 tons of fertilizers valued at \$23,866.

**Printing and publishing (Table 24).**—This table shows the number of publications and their aggregate circulation, by period of issue, for the census years 1919, 1914, and 1909.

The aggregate circulation of publications shows a considerable increase. During the five-year period from 1914 to 1919 the circulation increased 55,466, or 14.2 per cent, and during the decade, 162,977, or 57.4 per cent.

Of the daily papers, 24 were published in the afternoon, their circulation being 81,544, or 49.2 per cent of the total daily circulation, and an increase of 26,058, or 46.9 per cent, over the afternoon circulation in 1914. The morning papers, although fewer in number, had the larger circulation in 1919, and the increase over 1914 was 20,664, or 32.5 per cent. The increase shown in the circulation of monthly publications is due to the establishment of several business and professional periodicals.

A Spanish weekly was the only publication printed in a foreign language.

TABLE 24.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	193	189	160	446,969	391,503	283,992
Daily.....	35	28	19	165,824	119,102	80,300
Sunday.....	13	9	6	89,177	83,171	48,539
Semiweekly.....	5	6	3	6,525	11,425	10,300
Weekly.....	128	141	127	156,061	171,615	137,818
Monthly.....	12	7	5	29,382	6,190	7,035

<sup>1</sup> Includes in 1919, 1 triweekly.

<sup>2</sup> Includes in 1919, 3 semimonthlies and in 1914, 1 quarterly.

**Laundries (Table 25).**—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 25, however, summarizes the statistics for such laundries in Florida for 1919 and 1914.

TABLE 25.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	35	45	.....
Persons engaged.....	1,146	991	15.6
Proprietors and firm members.....	23	41	.....
Salaried employees.....	140	86	.....
Wage earners (average number).....	983	864	13.8
Primary horsepower.....	1,437	1,120	28.3
Capital.....	\$881,099	\$912,525	43.8
Salaries and wages.....	680,304	448,122	51.8
Salaries.....	192,147	91,998	108.9
Wages.....	488,157	356,124	37.1
Paid for contract work.....	5,643	5,750	-1.9
Rent and taxes.....	74,024	41,344	79.0
Cost of materials.....	305,461	182,317	100.5
Amount received for work done.....	1,480,051	946,314	56.4

<sup>1</sup> A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 26).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 26.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	10
Persons engaged.....	88
Proprietors and firm members.....	9
Salaried employees.....	13
Wage earners (average number).....	66
Primary horsepower.....	58
Capital.....	\$86,273
Salaries and wages.....	66,573
Salaries.....	14,537
Wages.....	52,536
Paid for contract work.....	11,882
Rent and taxes.....	9,430
Cost of materials.....	39,185
Amount received for work done.....	166,834

Custom gristmills and sawmills (Tables 27 and 28).—Statistics for custom gristmills and custom sawmills

are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 27 and 28, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled, and that for custom sawmills the amount charged for the work performed.

TABLE 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	99	88	.....
Persons engaged.....	124	144	-13.9
Proprietors and firm members.....	118	127	-7.1
Salaried employees.....	6	2	.....
Wage earners (average number).....	6	15	.....
Primary horsepower.....	1,643	1,839	-10.7
Capital.....	\$128,237	\$98,947	29.6
Salaries and wages.....	9,475	4,417	114.5
Salaries.....	160	160	.....
Wages.....	9,475	4,248	123.0
Rent and taxes.....	1,098	917	19.7
Cost of materials <sup>2</sup> .....	380,305	237,351	60.2
Value of products <sup>2</sup> .....	476,075	273,928	73.8

<sup>1</sup> A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

<sup>2</sup> Includes estimate of all grain ground.

TABLE 28.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	12	5	.....
Persons engaged.....	26	24	.....
Proprietors and firm members.....	15	10	.....
Salaried employees.....	1	1	.....
Wage earners (average number).....	11	13	.....
Primary horsepower.....	270	165	74.2
Capital.....	\$25,535	\$7,628	234.8
Salaries and wages.....	5,496	3,524	56.0
Salaries.....	78	78	.....
Wages.....	5,496	3,446	59.5
Rent and taxes.....	199	75	165.3
Cost of materials.....	1,514	252	500.8
Value of products <sup>2</sup> .....	13,607	6,817	99.6

<sup>1</sup> Percentages are omitted where base is less than 100.

<sup>2</sup> Amount received for work done.

## GENERAL TABLES.

Table 29 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in Jacksonville, and for Key West, Pensacola, and Tampa, similar data for all industries combined.

Table 30 presents, for 1919, in the state as a whole and in Jacksonville and Tampa, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

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TABLE 29.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
Expressed in thousands.								Expressed in thousands.							
All industries.....	1919	2,582	74,415	139,456	\$67,433	\$92,680	\$213,327	Food preparations, not else- where specified.	1919	6	29	251	\$20	\$450	\$561
	1914	2,518	55,608	100,071	24,822	33,816	81,112		1914	7	23	84	11	41	90
	1909	2,159	57,473	89,816	22,982	26,128	72,890		1909	5	34	72	13	156	258
Artificial stone products.....	1919	36	183	146	161	164	413	Foundry and machine-shop products. <sup>2</sup>	1919	149	1,138	2,236	1,341	1,778	4,290
	1914	59	197	174	102	131	305		1914	87	694	1,517	463	534	1,408
	1909	32	124	44	57	93	215		1909	36	508	725	287	331	837
Awnings, tents, and sails.....	1919	9	49	12	54	479	674	Gas, illuminating and heating..	1919	14	418	1,074	422	983	1,989
	1914	7	23	11	14	39	68		1914	14	349	968	183	338	1,049
									1909	12	210	746	113	182	585
Boxes, cigar.....	1919	4	673	643	508	750	1,683	Ice, manufactured.....	1919	95	1,412	18,011	1,153	1,524	4,052
	1914	4	457	459	225	282	635		1914	92	760	12,475	446	617	2,203
	1909	3	370	461	175	232	504		1909	70	461	8,585	224	384	1,207
Bread and other bakery prod- ucts.	1919	183	737	871	622	3,552	5,144	Lumber and timber products. <sup>3</sup>	1919	552	23,350	75,228	18,427	17,776	50,409
	1914	184	672	495	369	1,192	2,169		1914	507	18,358	65,073	8,077	7,920	21,457
	1909	113	405	666	201	760	1,292		1909	515	19,227	65,097	7,551	6,239	20,893
Brick.....	1919	11	156	805	71	54	181	Marble and stone work.....	1919	10	53	77	54	84	190
	1914	14	222	1,320	84	94	288		1914	14	47	75	39	67	171
	1909	29	439	2,288	138	113	379		1909	10	42	.....	30	35	111
Canning and preserving <sup>1</sup> .....	1919	28	424	391	152	625	1,041	Mattresses and spring beds, not elsewhere specified.	1919	11	85	140	70	304	480
	1914	21	194	268	58	239	418		1914	8	60	101	39	110	177
	1909	18	188	70	51	80	213	Mineral and soda waters.....	1919	105	431	540	279	1,505	2,690
Carriages and wagons, includ- ing repairs.	1919	13	57	98	70	69	166		1914	114	271	412	119	557	1,050
	1914	46	169	203	115	95	305		1909	74	168	196	62	196	515
	1909	39	230	354	136	210	453	Minerals and earths, ground or otherwise treated.	1919	5	717	1,880	476	546	1,780
Cars and general shop construc- tion and repairs by electric railroad companies.	1919	5	80	133	104	59	176		1914	4	220	606	65	91	271
	1914	4	77	193	50	36	96	Patent medicines and com- pounds.	1919	24	58	34	35	387	738
	1909	6	55	63	30	29	68		1914	18	24	6	11	39	116
									1909	10	26	4	9	75	176
Cars and general shop construc- tion and repairs by steam railroad companies.	1919	19	3,762	3,557	4,744	3,229	8,468	Paving materials.....	1919	5	212	1,023	122	140	287
	1914	13	2,311	2,234	1,398	950	2,500		1914	5	124	310	55	24	106
	1909	12	1,753	1,035	1,018	601	1,743	Printing and publishing.....	1919	237	1,172	1,523	1,258	1,708	5,618
Coffee, roasting and grinding....	1919	18	68	185	51	1,300	1,602		1914	235	1,220	1,325	898	803	3,017
	1914	19	45	171	24	465	697		1909	174	905	794	529	434	1,896
	1909	13	29	83	11	194	262	Shipbuilding, wooden, includ- ing boat building.	1919	68	3,361	3,992	3,885	3,216	8,428
Confectionery and ice cream.....	1919	27	105	395	74	762	1,112		1914	65	486	1,489	334	280	804
	1914	30	72	90	36	171	346		1909	52	482	873	289	233	697
Cooperage.....	1919	17	227	398	180	772	1,122	Slaughtering and meat packing.	1919	8	348	918	278	4,816	5,316
	1914	10	191	404	82	274	434		1914	11	54	144	32	789	925
	1909	10	133	360	48	217	333		1909	11	32	.....	20	392	467
Copper, tin, and sheet-iron work.	1919	22	99	81	117	297	540	Tobacco, cigars and cigarettes.	1919	280	12,393	192	11,875	15,534	37,026
	1914	26	124	86	84	254	399		1914	270	10,761	149	6,038	7,739	19,386
	1909	8	52	30	30	43	105		1909	229	12,280	109	7,169	8,685	21,575
Fertilizers.....	1919	24	1,390	4,368	1,103	7,158	10,686	Turpentine and rosin.....	1919	452	11,748	904	6,833	5,859	21,509
	1914	22	781	3,070	367	4,656	6,995		1914	508	15,466	913	4,015	2,584	9,573
	1909	12	589	1,710	218	2,875	3,878		1909	593	18,143	1,916	4,816	1,969	11,938
Flour-mill and gristmill prod- ucts.	1919	27	52	1,093	33	470	568	All other industries.....	1919	118	9,419	18,257	12,862	16,321	33,488
	1914	13	22	382	7	134	166		1914	87	1,134	4,864	382	2,235	3,428
	1909	6	11	141	5	139	164		1909	67	577	3,394	252	1,231	1,915

<sup>1</sup> Includes "canning and preserving, fish;" "canning and preserving, fruits and vegetables;" and "pickles, preserves, and sauces," in all years; and "canning and pre-  
serving, oysters," in 1914 and 1909.

<sup>2</sup> Includes "automobile repairing," and "iron and steel, welding," in all years, and "engines, steam, gas, and water," and "structural ironwork, not made in steel works  
or rolling mills," in 1914 and 1909.

<sup>3</sup> Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."

## CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

JACKSONVILLE.....	1919	244	7,168	13,356	7,292	17,600	31,212	JACKSONVILLE—Con.	1919	7	104	76	60	351	615
All industries.	1914	173	2,816	7,147	1,547	5,541	10,148	Mineral and carbonated waters.	1914	9	34	31	17	59	141
	1909	114	1,988	5,165	988	3,997	6,722		1909	4	26	35	5	37	90
Artificial stone products.....	1919	4	42	8	40	34	96	Printing and publishing.....	1919	43	340	355	373	505	1,783
	1914	3	50	21	28	18	66		1914	41	281	366	301	353	1,061
	1909	3	40	12	17	18	49		1909	28	250	252	163	146	636
Bread and other bakery prod- ucts.	1919	22	270	192	233	1,218	1,781	Tobacco, cigars.....	1919	17	311	3	340	504	1,069
	1914	20	221	151	99	383	660		1914	17	272	.....	120	160	409
	1909	9	122	75	55	176	309		1909	14	134	.....	73	115	264
Carriages and wagons, includ- ing repairs.	1919	3	25	33	27	23	72	All other industries.....	1919	118	5,383	10,500	5,513	13,697	23,187
	1914	6	50	49	41	36	105		1914	52	1,469	5,026	692	4,005	6,782
	1909	4	67	34	42	35	100		1909	44	1,169	3,892	551	3,245	4,892
Copper, tin, and sheet-iron work.	1919	4	42	70	50	186	307	TAMPA <sup>3</sup> .....	1919	263	13,079	7,513	14,534	17,273	42,461
	1914	6	29	13	21	48	64	All industries.	1914	202	7,055	3,406	4,405	5,878	14,039
Foundry and machine-shop products.	1919	16	270	370	357	604	1,268		1909	182	6,786	2,536	4,033	6,853	13,804
	1914	8	88	94	70	39	152								
Lumber and timber products <sup>1</sup> .	1919	10	381	1,740	299	478	1,034								
	1914	11	313	1,396	158	440	753								
	1909	8	180	865	82	225	382								

<sup>1</sup> Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>2</sup> Comparative statistics by industries for 1914 and 1909 not available.

## CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED

KEY WEST.....	1919	69	2,313	1,211	2,094	2,776	6,520	PENSACOLA.....	1919	70	4,586	5,243	5,789	10,235	18,007
	1914	65	2,037	722	1,100	1,419	3,389		1914	64	835	1,404	481	857	1,832
	1909	56	2,431	295	1,397	1,643	3,965		1909	59	940	1,226	466	859	1,837

## MANUFACTURES—FLORIDA.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Propri- etors and firm mem- bers.	Sala- ried offi- cers, su- perin- tend- ents, and man- agers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Fe- male.	Aver- age num- ber.	Number, 15th day of—		Male.	Fe- male.	Male.	Fe- male.		
								Maximum. month.							Minimum. month.

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

		2,582	82,986	2,616	2,983	2,219	753	74,415	De 78,140	Au 71,298	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Dollars. 206,203,570
1	All industries.....	2,582	82,986	2,616	2,983	2,219	753	74,415	De 78,140	Au 71,298	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	206,203,570
2	Agricultural implements.....	3	8	4	9	1	1	4	( <sup>1</sup> ) No 269	( <sup>1</sup> ) Ja 103	4	4	6	.....	.....	65,022
3	Artificial stone products.....	36	244	50	11	1	1	183	Ja 247	Fe 247	268	262	.....	.....	.....	225,434
4	Automobile bodies and parts.....	8	58	11	1	1	1	44	Je 46	Mh 38	44	44	.....	.....	.....	106,059
5	Automobile repairing.....	79	380	98	12	8	5	259	De 278	Fe 247	288	287	.....	1	.....	378,180
6	Awnings, tents, and sails.....	9	75	10	9	4	3	49	Ja 59	Oc 42	51	34	17	.....	.....	109,335
7	Boxes, cigar.....	4	725	7	26	16	3	673	De 767	Ap 616	768	385	383	.....	.....	672,438
8	Boxes, set-up paper boxes and cartons.....	3	29	1	6	2	.....	20	No 37	Ja 0	30	4	26	.....	.....	35,751
9	Boxes, wooden packing, except cigar boxes.....	20	1,113	14	57	15	2	1,025	Ap 1,136	Au 896	1,085	900	181	4	.....	1,749,738
10	Bread and other bakery products.....	183	1,155	200	58	102	58	737	De 344	Je 681	848	671	166	11	.....	2,037,964
11	Brick.....	11	182	17	9	.....	.....	156	Oc 169	Ja 139	155	154	.....	1	.....	242,601
12	Brooms.....	10	83	13	7	2	2	59	Ja 72	Je 42	60	39	21	.....	.....	130,083
13	Brushes.....	3	48	1	2	1	.....	44	Oc 62	Je 26	51	29	22	.....	.....	67,615
14	Canning and preserving, fish.....	10	306	18	14	6	4	264	Oc 504	Jy 78	502	250	252	.....	.....	284,884
15	Canning and preserving, fruits and vegetables.....	5	43	2	4	.....	1	30	De 94	Ap 0	164	51	111	2	.....	76,085
16	Carriages and wagons, including repairs.....	13	78	17	3	.....	1	57	.....	.....	75	74	1	.....	.....	158,178
17	Carriages and wagons.....	9	49	14	.....	.....	.....	35	De 44	Mh 27	50	50	.....	.....	.....	107,008
18	Repair work only.....	4	29	3	3	.....	1	22	Fe 24	Jy 20	25	24	1	.....	.....	51,170
19	Cars and general shop construction and repairs by electric-railroad companies.....	5	102	.....	9	4	.....	89	Ja 113	De 48	91	91	.....	.....	.....	542,671
20	Cars and general shop construction and repairs by steam-railroad companies.....	19	3,976	.....	119	78	17	3,762	My 4,073	Jy 3,352	3,992	3,981	11	.....	.....	8,121,237
21	Coffee, roasting and grinding.....	18	120	19	5	25	3	68	Ap 71	Jy 05	70	52	17	.....	1	557,214
22	Confectionery and ice cream.....	27	181	37	10	14	15	105	.....	.....	168	128	32	5	3	462,276
23	Confectionery.....	20	41	9	2	4	5	21	De 31	Au 18	31	16	15	.....	.....	60,307
24	Ice cream.....	17	140	28	8	10	10	84	My 96	Mh 71	137	112	17	5	3	401,069
25	Copperage.....	22	268	16	15	6	4	227	Ap 251	Oc 170	248	238	8	2	.....	596,801
26	Copper, tin, and sheet-iron work.....	22	140	19	8	9	5	90	De 122	My 85	119	119	.....	.....	.....	411,871
27	Fertilizers.....	24	1,713	2	98	174	53	1,390	Mh 1,663	Au 1,070	1,578	1,532	45	1	.....	15,938,567
28	Flour-mill and gristmill products.....	27	91	27	7	4	1	52	Jy 57	Ap 48	55	55	.....	.....	.....	281,712
29	Food preparations, not elsewhere specified.....	6	45	11	4	.....	1	29	Ja 41	Oc 17	28	23	5	.....	.....	291,894
30	Foundry and machine-shop products.....	64	1,046	50	62	46	16	872	.....	.....	887	885	1	1	.....	2,601,019
31	Boiler shops.....	3	24	3	2	.....	.....	19	Ap 27	Au 15	20	20	.....	.....	.....	26,760
32	Foundries.....	6	149	2	5	3	3	136	De 241	Mh 105	146	146	.....	.....	.....	362,566
33	Machine shops.....	45	532	41	34	34	10	413	Je 467	Ja 357	421	421	.....	.....	.....	1,338,877
34	Machine shop and foundry combined.....	10	341	4	21	9	3	304	My 386	Se 275	300	298	1	1	.....	964,017
35	Furniture.....	3	34	1	.....	1	.....	27	Se 303	Fe 19	31	29	2	.....	.....	52,847
36	Gas, illuminating and heating.....	14	500	.....	35	35	15	418	Ja 456	Je 392	439	439	.....	.....	.....	10,850,130
37	Ice, manufactured.....	95	1,702	51	127	87	25	1,412	Se 1,549	Ja 1,312	1,527	1,490	26	2	.....	12,614,312
38	Iron and steel, welding.....	6	15	8	.....	.....	.....	7	Fe 5	Jy 6	7	7	.....	.....	.....	17,517
39	Lumber and timber products.....	469	22,532	503	547	359	65	21,058	Oc 23,193	Fe 18,872	24,002	23,762	284	46	.....	41,636,708
40	Lumber, planing-mill products, not including planing mills connected with sawmills.....	63	1,472	51	94	42	18	1,267	No 1,462	Ap 1,085	1,431	1,427	3	1	.....	3,374,359
41	Marble and stone work.....	10	72	9	6	1	3	53	No 73	Ja 44	58	58	.....	.....	.....	122,884
42	Mattresses and spring beds, not elsewhere specified.....	11	103	10	5	2	1	85	De 104	My 72	103	82	21	.....	.....	227,761
43	Mineral and soda waters.....	105	679	100	73	60	15	431	.....	.....	441	411	18	12	.....	1,305,295
44	Mineral and carbonated waters.....	102	671	99	70	60	15	427	Jy 485	Ja 363	427	401	14	12	.....	1,289,239
45	All other.....	3	8	1	3	.....	.....	4	Ja 11	Fe 1	14	10	4	.....	.....	16,056
46	Minerals and earths, ground or otherwise treated.....	5	748	.....	22	7	2	717	Se 800	Fe 600	783	754	29	.....	.....	1,382,483
47	Oil, not elsewhere specified.....	4	68	.....	8	5	1	54	Ap 77	Au 24	54	54	.....	.....	.....	876,799
48	Patent medicines and compounds.....	24	113	21	10	14	10	58	.....	.....	62	20	42	.....	.....	501,831
49	Patent and proprietary medicines.....	17	76	9	7	7	5	48	De 56	Ja 44	54	54	12	42	.....	472,664
50	Patent and proprietary compounds, not elsewhere specified.....	7	37	12	3	7	5	10	Fe 13	My 7	8	8	.....	.....	.....	89,167
51	Paving materials.....	5	227	3	9	2	1	212	Se 247	Fe 169	230	230	.....	.....	.....	210,341
52	Pickles, preserves, and sauces.....	13	225	16	51	20	5	124	Ap 310	Jy 46	127	94	27	2	4	488,832
53	Printing and publishing, book and job.....	77	495	68	38	41	17	331	.....	.....	365	266	94	3	2	1,205,977
54	Job printing.....	71	444	62	35	22	15	310	De 347	Je 287	337	248	84	3	2	1,128,881
55	Book publishing and printing.....	3	34	4	2	18	2	8	Je 14	Mh 4	11	6	5	.....	.....	33,937
56	Linotype work and typesetting.....	3	17	2	1	1	.....	13	Fe 18	My 8	17	12	5	.....	.....	43,159
57	Printing and publishing, newspapers and periodicals.....	160	1,412	135	142	179	115	841	.....	.....	889	721	131	36	1	3,778,417
58	Printing and publishing.....	19	315	9	45	60	42	159	No 172	Au 150	178	158	16	4	.....	506,875
59	Printing, publishing, and job printing.....	122	1,065	113	90	117	71	674	De 171	My 642	704	561	113	29	1	3,171,905
60	Publishing without printing.....	19	32	13	7	2	2	8	Ap 9	Mh 6	7	2	2	3	.....	9,637
61	Shipbuilding, steel.....	5	8,211	.....	100	202	71	7,838	Ja 8,533	Je 7,322	7,813	7,793	20	.....	.....	88,599,822

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

# MANUFACTURES—FLORIDA.

19

## COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local	Principal materials.	Fuel and rent of power.			Total.	Owned.				
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 6,961,103	Dollars. 3,874,243	Dollars. 87,433,229	Dollars. 938,056	Dollars. 758,066	Dollars. 6,653,165	Dollars. 88,448,851	Dollars. 4,231,873	Dollars. 213,326,811	Dollars. 120,640,587	139,456	105,044	5,543	4,706	243	23,020	12,480	1
13,324	1,320	160,711	125	3,929	2,778	160,632	3,650	413,077	248,705	146	5	118	23	23	5	3	2
1,717	1,380	59,751	6	6,056	80,234	1,720	207,281	116,327	26	26	3	9	4	287	5	4	3
25,180	14,728	296,762	133	32,569	6,760	231,318	13,367	740,290	495,605	590	202	37	12	300	216	7	6
22,718	6,395	58,835	100	3,054	7,904	478,214	712	673,760	194,834	12	337	6	61	44	117	9	10
103,502	25,841	508,366	148	5,857	18,087	735,192	14,948	1,683,074	932,034	643	337	6	300	216	7	6	7
3,858	4,459	2,925	148	1,475	59	19,558	2,179	22,523	786	61	337	6	300	216	7	6	8
109,295	20,433	610,111	148	4,215	36,036	1,120,781	4,769	2,539,732	1,414,182	2,390	2,344	2	44	117	9	10	9
133,167	80,011	622,323	8,435	64,440	67,411	3,442,111	109,415	5,143,559	1,592,033	871	60	57	754	10	10	10	10
9,677	71,304	1,304	1,270	1,648	11,971	42,046	181,430	127,413	805	617	120	68	11	2	12	11	11
13,369	3,457	30,224	1,300	760	951	66,441	2,214	157,470	88,815	83	35	37	9	5	14	13	12
5,600	884	17,666	1,050	180	501	14,277	1,661	42,799	26,861	44	35	9	2	5	14	13	13
20,600	9,950	86,508	150	1,499	2,229	189,111	3,957	382,009	188,941	161	126	20	10	5	14	13	14
2,827	150	12,310	200	259	42,295	2,250	2,250	68,382	23,837	95	93	2	2	5	14	13	15
4,800	314	70,033	7,379	1,320	1,682	66,737	2,630	165,894	96,527	98	12	12	86	20	16	16	16
4,800	314	24,096	7,379	1,260	931	41,050	1,842	104,041	61,149	78	12	12	66	20	17	17	17
15,779	2,341	103,939	60	751	8,671	25,687	788	61,853	35,378	20	133	20	133	20	18	18	18
360,537	122,806	4,744,412	2,526	2,363,808	804,801	8,468,318	5,239,709	3,557	1,400	733	6	1,358	1,100	20	20	19	19
20,292	30,884	50,624	300	10,070	23,301	1,291,028	7,922	1,602,332	302,482	185	95	33	185	51	21	21	21
24,414	32,583	74,054	200	16,281	12,820	729,484	32,655	1,111,660	349,521	395	20	33	207	18	22	22	22
5,200	10,973	17,704	2,010	5,245	105,756	2,430	188,497	80,311	38	38	20	33	249	51	24	24	23
19,214	21,610	56,350	200	14,271	7,575	623,728	30,225	923,163	269,210	357	75	33	249	51	24	24	24
24,201	7,759	180,084	60	3,325	1,736	766,009	5,570	1,121,901	350,232	398	170	105	16	105	25	25	25
21,687	15,536	117,168	276	6,930	4,135	294,432	2,473	540,263	243,358	81	2,130	812	1,426	1,258	26	26	26
269,376	306,467	1,102,556	2,922	182,259	7,005,422	152,483	10,685,819	3,527,914	4,368	4,368	2,130	812	1,426	1,258	26	26	27
10,324	4,980	33,087	889	3,503	461,421	9,009	568,023	97,503	1,093	1,093	550	222	286	28	28	28	28
14,025	1,060	20,273	326	3,100	13,201	453,525	5,659	101,725	101,725	251	60	10	181	29	29	29	29
171,757	68,443	1,025,013	14,864	17,624	47,240	1,465,368	56,746	3,507,648	1,985,534	1,622	170	154	1,298	13	30	30	30
2,700	33,922	504	504	742	12,580	442	50,965	46,943	28	28	20	20	8	31	31	31	31
20,338	5,621	128,715	3,830	138,522	10,456	352,790	317	4,786	317	317	130	114	474	13	33	33	32
84,611	49,803	517,506	14,864	16,220	32,068	962,789	21,780	2,005,715	1,021,146	718	130	114	474	13	33	33	33
64,108	17,059	344,810	900	10,600	351,477	24,038	1,089,178	713,663	559	559	40	16	503	34	34	34	34
5,580	1,300	31,255	1,425	265	30,379	1,004	98,289	66,906	46	46	789	265	20	46	35	35	35
84,417	64,108	421,893	125	675	92,982	309,671	673,279	1,006,288	1,074	1,074	15,049	1,618	742	1	601	1,405	36
214,707	102,939	1,153,136	1,400	33,537	96,851	613,546	910,304	4,051,516	2,527,666	18,011	15,049	1,618	742	1	601	1,405	37
1,453,983	545,375	10,720,690	573,607	126,605	886,747	13,407,076	66,182	42,598,491	29,065,233	67,683	62,989	2,460	245	185	1,804	6,569	38
210,835	70,538	1,096,494	245	10,032	74,611	3,090,569	26,621	5,270,931	2,153,741	5,155	3,705	107	107	1,343	60	40	40
10,415	2,292	53,787	575	1,194	7,040	82,070	2,256	189,545	105,219	77	4	4	73	41	41	41	41
9,805	4,224	69,897	3,375	1,435	301,732	2,378	479,992	175,882	140	140	12	12	128	10	42	42	42
106,123	90,556	278,970	650	46,659	121,735	1,464,222	40,607	2,690,090	1,185,261	540	20	134	386	43	43	43	43
192,898	90,556	278,952	650	45,879	121,594	1,455,124	40,247	2,670,773	1,175,402	524	10	134	386	44	44	44	44
3,225	2,118	7,032	1,085	780	141	9,098	360	19,317	9,859	16	10	10	6	45	45	45	45
48,492	10,209	475,702	5,940	4,898	116,098	279,309	266,537	1,779,550	1,233,704	1,880	1,475	405	18	46	46	46	46
21,909	8,897	38,114	329	5,735	639,243	15,491	969,701	314,967	960	960	960	14	40	47	47	47	47
17,859	35,749	35,000	7,801	15,244	389,854	489	738,214	350,871	34	34	15	14	5	48	48	48	48
12,025	18,643	27,141	4,946	13,710	294,739	124	565,606	270,643	270,643	2	2	2	2	49	49	49	49
4,034	17,106	7,868	2,855	1,534	92,115	365	172,708	80,228	32	32	15	14	3	50	50	50	50
16,966	2,871	121,759	7,543	954	117,728	22,131	286,611	146,752	1,023	1,023	70	4	553	51	51	51	51
16,150	14,111	53,418	2,062	3,981	374,712	22,948	590,336	202,676	135	135	40	4	61	52	52	52	52
88,058	61,321	342,110	17,054	32,304	50,114	594,534	13,740	1,517,025	908,351	469	18	18	451	53	53	53	53
80,069	48,322	310,109	11,218	29,932	49,170	582,113	12,114	1,428,922	832,695	444	12	12	426	54	54	54	54
5,589	12,699	7,750	5,836	1,247	708	9,401	237	25,046	16,678	12	12	12	12	55	55	55	55
2,400	300	18,251	1,125	286	3,020	1,369	65,657	59,678	13	13	217	217	837	17	56	56	56
329,260	307,041	915,491	89,239	51,805	103,565	1,042,512	57,117	4,100,841	3,001,212	1,054	6	211	595	17	59	59	59
116,584	106,947	235,938	28,871	17,300	22,180	107,764	18,812	1,093,231	876,655	248	211	211	595	17	59	59	59
199,184	197,016	674,229	24,899	33,966	81,354	834,605	38,305	2,927,106	2,054,196	806	3,745	253	6,107	1,035	60	60	60
13,492	3,078	5,324	35,469	540	31	10,143	257,550	80,504	70,361	10,105	3,745	253	6,107	1,035	60	60	60
528,569	490,079	11,556,678	50,600	41,816	10,443,412	257,550	24,234,126	13,533,164	10,105	3,745	253	6,107	1,035	60	60	60	60

<sup>1</sup>No figures given for reasons stated under "Explanation of terms."

<sup>2</sup>Same number reported throughout the year.

<sup>3</sup>Same number reported for one or more other months.

<sup>4</sup>None reported for one or more other months.

## MANUFACTURES—FLORIDA.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.			Under 16.	
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.		Male.	Female.
								Maximum month.	Minimum month.						

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

1	Shipbuilding, wooden, including boat building.	68	3,649	56	117	78	37	3,361			2,711	2,700	9	2	Dollars. 7,655,457
2	New vessels.	29	2,602	24	77	54	26	2,421	Ja 4,084	De 1,075	1,702	1,697	4	1	5,453,016
3	Repair work only.	25	950	18	36	20	10	896	Jy 1,194	Mh 667	954	950	4	1	2,076,800
4	Small boats.	14	67	14	4	4	1	44	No 53	Mh 34	55	53	1	1	125,581
5	Slaughtering and meat packing.	8	425	8	13	44	12	348	Ja 480	Je 257	381	318	63		1,675,565
6	Sugar, cane.	3	6	2	1	1		2	De 16	Ja 3	0	17			58,973
7	Tobacco, cigars and cigarettes.	286	13,435	322	261	352	107	12,393	De 14,105	Aug 8,588	14,897	10,195	4,691	9	21,230,969
8	Blacking, stains, and dressings.	452	13,846	572	635	88	3	11,748	Oc 12,162	Ja 10,582	12,451	12,114	34	302	15,525,831
9	Wood distillation.	6	479		32	26	9	412	De 503	Ja 346	346	346		1	1,838,182
10	All other industries*	70	1,115	38	94	47	21	915							4,246,515

*All other industries embrace—			
Artificial flowers.....	3	Cleansing and polishing preparations	2
Bags, other than paper, not including bags made in textile mills.....	3	Clothing, men's.....	2
Baskets, and rattan and willow ware.....	1	Clothing, women's, wrappers and house dresses.....	1
Blacking, stains, and dressings.....	1	Coffins, burial cases, and undertakers' goods.....	2
Brass and bronze products.....	1	Dyeing and finishing textiles, exclusive of that done in textile mills.....	1
Canning and preserving, oysters.....	3	Electrical machinery, apparatus, and supplies.....	1
		Engines, steam, gas, and water.....	1
		Engraving and die casting.....	1
		Fancy articles, wood novelties.....	1
		Flavoring extracts.....	2
		Glass, cutting, staining, and ornamenting.....	2
		Glucose and starch.....	1
		Grease and tallow, not including lubricating greases.....	1
		Hand stamps.....	2
		Hats and caps, other than felt, straw, and wool.....	1
		Hats, fur-felt.....	1
		Hats, straw.....	1

## CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

1	JACKSONVILLE—All industries.	244	8,384	186	352	483	195	7,168	Ja 9,093	De 6,322	7,112	6,631	473	5	3	27,270,301
2	Artificial stone products.	4	52	5	4	1		42	Oc 62	Ja 20	56	56				23,384
3	Automobile repairing.	25	100	22	7	1	3	127	De 140	Ja 118	150	150				70,421
4	Bread and other bakery products.	22	371	18	27	37	19	270	No 303	Fe 247	283	215	68			583,148
5	Carriages and wagons, including repairs.	3	33	4	3		1	25	De 34	Ap 19	40	39	1			72,519
6	Copper, tin, and sheet-iron work.	4	57	1	5	5	4	42	Fe 50	My 35	41	41				314,672
7	Foundry and machine-shop products.	16	336	13	27	18	8	270			270	270				936,631
8	Machine shops.	12	189	13	15	16	5	140	Je 196	Ja 104	130	130				536,376
9	All other.	4	147		12	2	3	130	De 235	Mh 102	140	140				370,255
10	Lumber and timber products.	3	57	3	1		1	52	(a) 52	(a) 52	52	52				9,500
11	Lumber, planing-mill products, not including planing mills connected with sawmills.	7	367	3	18	13	4	329	Ja 417	Ap 263	362	359	3			789,913
12	Mattresses and spring beds, not elsewhere specified.	6	47	6	3	1		37	De 40	My 34	41	33	8			123,714
13	Mineral and carbonated waters.	7	132		12	13	3	104	Jy 120	Ja 90	97	95	2			202,905
14	Patent medicines and compounds.	12	76		7	10	7	45	De 52	Ja 43	48	48	11	37		480,279
15	Printing and publishing, book and job.	28	249	24	22	32	9	162			183	129	63		1	462,535
16	Job printing.	25	214	21	19	14	9	151	De 162	Je 141	168	119	48		1	418,534
17	All other.	3	35	3	3	15		11	De 14	An 9	15	10	5			44,324
18	Printing and publishing, newspapers and periodicals.	15	321	7	15	85	36	178			133	119	11	3		1,174,575
19	Printing and publishing.	4	96	3	7	28	15	43	De 47	Ja 39	47	46		1		219,132
20	Printing, publishing, and job printing.	4	217		6	56	20	135	De 160	Mh 128	86	73	11	2		951,944
21	Publishing without printing.	7	8	4	2	1										
22	Shipbuilding, wooden, including boat building.	6	2,083	6	55	51	28	1,943	Ja 3,830	De 563	1,356	1,353	3			3,497
23	Tobacco, cigars.	17	343	19	6	5	2	311	De 347	Ja 290	367	360	67			4,189,572
24	Turpentine and rosin.	3	43	4	2	6		31	No 34	De 29	31	31				362,250
25	All other industries*	66	3,657	44	138	205	70	3,200			3,602	3,378	220	2	2	63,631

* All other industries embrace—									
Artificial flowers.....	1	Brooms, from broom corn.....	2	Cleansing and polishing preparations.....	1	Electrical machinery, apparatus, and supplies.....	1		
Automobile bodies and parts.....	1	Brushes.....	1	Clothing, men's.....	2	Engraving and diesinking.....	1		
Awnings, tents, and sails.....	2	Cars and general shop construction and repairs by electric-railroad companies.....	1	Coffee, roasting and grinding.....	2	Fertilizers.....	3		
Bags, other than paper, not including bags made in textile mills.....	2	Cars and general shop construction and repairs by steam-railroad companies.....	1	Coffins, burial cases, and undertakers' goods.....	1	Food preparations, sweetening sirups, other than cane.....	1		
Boxes, set-up paper boxes and cartons.....	2			Confectionery and ice cream.....	4	Furniture, store and office fixtures.....	1		
Brass and bronze products.....	1			Copperage, hogsheds and barrels.....	2				

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

<sup>3</sup> None reported for one or more other months.

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).  
<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).  
<sup>3</sup> None reported for one or more other months.

# MANUFACTURES—FLORIDA.

21

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owued.	Steam engines (not turbines).	Internal-combustion engines.	Water power. <sup>1</sup>	

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
282,004	146,693	3,885,284	9,315	28,568	35,012	3,154,384	61,801	8,428,253	5,212,068	3,992	1,162	.....	388	16	2,426	11
186,089	100,587	2,651,878	1,600	17,348	11,265	2,653,972	27,116	5,820,293	3,149,205	2,668	1,005	.....	129	.....	1,534	.....
89,943	41,728	1,172,272	7,715	8,345	22,727	434,408	33,225	2,410,483	1,942,850	1,217	157	.....	206	10	838	10
5,972	4,378	61,134	.....	2,875	1,020	66,004	1,460	187,477	120,013	107	.....	.....	53	.....	54	1
32,831	77,244	278,499	.....	20,541	13,441	4,746,323	69,907	5,316,186	499,956	918	292	.....	.....	.....	626	.....
250	150	885	.....	.....	78	3,316	144	6,313	2,853	61	50	.....	11	.....	.....	1
993,661	903,825	11,874,880	3,161	95,680	4,647,007	15,527,986	6,269	37,926,394	22,392,139	192	.....	.....	.....	.....	192	7
773,283	92,924	6,832,835	193,837	19,654	325,539	3,755,424	103,400	21,508,553	15,649,729	904	570	10	304	.....	20	8
91,009	42,670	400,086	.....	.....	28,050	906,441	129,036	2,004,931	909,424	1,837	1,731	62	44	.....	.....	392
222,871	60,886	732,322	977	16,037	142,089	3,487,322	140,857	5,738,497	2,104,318	5,025	4,363	150	104	.....	408	25

Hats, wool-felt.....	1	Optical goods.....	1	Soap.....	1	Vinegar.....	1
Jewelry.....	2	Paints.....	4	Structural ironwork, not made in steel works or rolling mills.....	1	Wood preserving.....	2
Lime.....	2	Perfumery and cosmetics.....	2	.....	.....	Wood, turned and carved.....	1
Liquors, malt.....	2	Photo-engraving.....	2	Toys and games.....	1	Wooden goods, not elsewhere specified.....	2
Musical instruments and materials, not elsewhere specified.....	1	Pottery, earthen and stone ware.....	1	Umbrellas and canes.....	1	.....	.....
Oil and cake, cottonseed.....	3	Sand-lime brick.....	2	Upholstering materials, not elsewhere specified.....	2	.....	.....
.....	.....	Signs, other than electric.....	1	.....	.....	.....	.....

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

982,460	802,426	7,291,588	121,910	202,017	523,623	16,757,469	842,366	31,212,494	13,612,659	13,356	7,543	720	26	.....	5,007	2,680
8,179	800	40,411	.....	1,281	495	33,639	270	95,501	61,532	8	6	.....	.....	.....	2	.....
14,880	5,428	153,005	.....	10,750	1,884	48,602	4,163	295,510	242,661	344	200	.....	4	.....	140	.....
69,865	36,078	232,823	5,134	13,225	73,527	1,182,104	35,794	1,781,486	563,588	192	60	.....	.....	.....	132	.....
4,800	314	27,161	7,379	600	800	22,575	609	72,205	49,111	33	.....	.....	.....	.....	33	.....
13,647	10,126	50,285	.....	1,500	2,188	183,937	1,787	307,051	121,327	70	.....	.....	.....	.....	70	.....
78,575	29,828	356,944	.....	9,054	27,753	585,602	18,414	1,268,314	694,298	370	.....	.....	.....	.....	370	.....
51,469	25,551	208,279	.....	8,670	24,237	499,688	7,547	924,288	417,053	100	.....	.....	.....	.....	160	.....
27,106	4,277	148,065	.....	384	3,516	85,914	10,867	344,026	247,245	210	.....	.....	.....	.....	210	.....
1,509	1,200	24,400	28,000	.....	309	68,810	2,200	127,080	38,270	80	80	.....	.....	.....	.....	.....
50,390	23,805	274,928	.....	8,619	11,303	406,754	.....	906,434	497,470	1,069	1,165	.....	.....	.....	504	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5,805	1,996	37,799	.....	1,720	1,089	139,637	899	227,434	86,898	67	.....	.....	.....	.....	67	.....
27,758	26,890	60,068	.....	30,390	38,079	340,580	10,458	614,626	263,588	76	.....	.....	.....	.....	76	.....
15,309	28,781	25,024	.....	5,691	13,961	313,974	157	601,765	287,634	2	.....	.....	.....	.....	2	.....
51,749	43,467	177,106	16,123	14,670	11,742	201,133	4,667	638,305	432,505	142	.....	.....	.....	.....	140	.....
43,760	32,748	102,495	10,287	13,478	11,423	196,943	3,623	579,848	379,282	137	.....	.....	.....	.....	135	.....
7,980	10,719	14,611	5,836	1,192	319	4,190	1,044	58,457	53,223	5	.....	.....	.....	.....	5	.....
69,581	129,429	195,741	64,650	8,265	54,316	289,037	10,464	1,144,311	844,810	213	.....	.....	.....	.....	213	.....
33,635	43,001	62,074	28,471	6,840	15,684	83,274	6,120	379,286	289,892	91	.....	.....	.....	.....	91	.....
22,949	85,580	133,667	19,253	1,185	38,632	205,621	4,344	734,311	524,346	122	.....	.....	.....	.....	122	.....
6,997	848	.....	16,926	240	.....	142	.....	30,714	30,572	.....	.....	.....	.....	.....	.....	.....
138,518	102,438	2,036,861	.....	5,040	15,186	1,557,189	32,785	4,519,391	2,929,417	2,280	612	.....	.....	.....	1,668	.....
13,260	5,732	340,339	.....	3,637	50,257	503,664	160	1,068,607	564,783	3	.....	.....	.....	.....	3	.....
10,400	6,950	25,628	.....	1,800	3,553	301,655	6,094	448,634	140,885	40	40	.....	.....	.....	.....	.....
414,244	348,564	3,232,135	624	79,706	217,100	10,578,487	713,385	17,095,694	5,803,822	7,767	5,380	720	20	.....	1,647	2,680

Gas, illuminating and heating.....	2	Hats, wool-felt.....	1	Paints.....	1	Structural ironwork, not made in steel works or rolling mills.....	1
Glass, cutting, staining, and ornamenting.....	2	Ice, manufactured.....	2	Perfumery and cosmetics.....	2	Umbrellas and canes.....	1
Head stamps.....	1	Iron and steel, welding.....	2	Photo-engraving.....	2	Vinegar.....	1
Hats and caps, other than felt, straw, and wool.....	1	Jewelry.....	1	Pickles and preserves.....	1	Wood preserving.....	1
Hats, fur-felt.....	1	Marble and stone work.....	2	Shipbuilding, concrete.....	1	Wood, turned and carved.....	1
.....	.....	Oil and cake, cottonseed.....	1	Signs, other than electric.....	1	.....	.....
.....	.....	Optical goods.....	1	Slaughtering and meat packing.....	3	.....	.....

<sup>1</sup> None reported from one or more other months.

<sup>2</sup> Same number reported for one or more other months.

<sup>3</sup> Same number reported throughout the year.



## MANUFACTURES—FLORIDA.

TABLE 30.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.		Female.	
								Maximum. month.							Minimum. month.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																Dollars.
1	TAMPA—All industries.....	263	14,291	306	327	439	140	13,079	De 14,560	Au 9,232	15,080	11,118	3,048	11	3	38,825,718
2	Artificial stone products.....	5	13	9	.....	.....	.....	4	No <sup>3</sup> 8	Jo <sup>3</sup> 3	8	8	.....	.....	.....	10,436
3	Bread and other bakery products.....	21	117	29	2	7	2	77	Jy <sup>3</sup> 79	Ja 75	76	74	.....	2	.....	236,279
4	Coffee, roasting and grinding.....	10	39	12	2	3	1	21	(i) 21	(i) 21	22	22	.....	.....	.....	125,386
5	Confectionery and ice cream.....	6	44	12	2	3	5	22	No 28	Ja 18	30	20	10	.....	.....	115,735
6	Foundry and machine-shop products.....	6	92	6	4	2	.....	80	My 149	Mh 61	69	69	.....	.....	.....	248,268
7	Ice, manufactured.....	5	129	4	13	6	.....	106	Je <sup>3</sup> 110	De 98	104	104	.....	.....	.....	1,265,815
8	Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	146	2	9	6	2	127	No 139	Ja 103	138	138	.....	.....	.....	422,649
9	Patent medicines and compounds.....	4	8	2	.....	.....	.....	6	Ja <sup>3</sup> 7	My 4	6	4	2	.....	.....	7,210
10	Printing and publishing, book and job.....	10	59	8	5	2	4	40	Ja <sup>3</sup> 42	Mh <sup>3</sup> 38	43	30	11	1	1	103,443
11	Printing and publishing, newspapers and periodicals.....	8	212	4	22	45	20	121	Je 126	Mh 115	121	110	9	2	.....	801,947
12	Tobacco, cigars and cigarettes.....	139	9,730	173	172	289	91	9,005	De 10,409	Au 5,218	10,925	7,325	3,594	4	2	16,652,435
13	All other industries*.....	44	3,702	45	96	76	15	3,470	.....	.....	3,538	3,214	322	2	.....	18,836,115

*All other industries embrace—		Brooms, from broom corn.....	1	Cleansing and polishing preparations.....	1	Cooperage, hogsheds and barrels.....	1
Automobile bodies and parts.....	2	Carriages and wagons.....	1	Clothing, women's, wrappers and house dresses.....	1	Copper, tin, and sheet-iron work.....	2
Automobile repairing.....	2	Cars and general shop construction and repairs by electric-railroad companies.....	1	Coffins, burial cases, and undertakers' goods.....	1	Flavoring extracts.....	1
Awnings, tents, and sails.....	2					Food preparations, macaroni, vermicelli, and noodles.....	4
Boxes, cigar.....	3						

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1	KEY WEST.....	69	2,531	66	88	50	14	2,313	No 2,477	Se 1,864	2,673	1,988	674	9	2	3,961,222
2	MIAMI.....	73	958	69	41	99	41	708	De 829	My 651	809	743	65	.....	1	3,820,759
3	PENSACOLA.....	70	5,030	49	148	172	75	4,589	De 5,031	Ap 4,055	5,046	4,981	59	6	.....	15,857,354
4	St. PETERSBURG.....	39	287	40	22	4	6	215	No 282	Jy 190	285	257	28	.....	.....	858,752

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—FLORIDA.

23

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local	Principal materials.	Fuel and rent of power.			Total.	Owned.				
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	7,513	2,777	40	60	.....	4,636	291	1
1,357,373	1,009,298	14,533,837	12,801	161,907	3,183,451	16,872,794	400,349	42,461,377	25,188,234									2
4,596	9,846	3,070	.....	645	162	4,358	.....	10,761	6,403	.....	.....	.....	.....	.....	.....	.....	.....	3
4,032	10,510	87,376	.....	8,796	3,320	395,698	15,296	593,775	182,781	116	.....	.....	.....	.....	.....	116	.....	4
3,165	6,876	17,858	.....	4,597	829	252,593	3,273	309,497	53,601	68	.....	.....	.....	.....	.....	68	.....	5
17,576	4,608	21,400	.....	5,545	503	257,853	2,010	339,097	70,234	45	.....	.....	.....	.....	.....	45	.....	6
35,489	10,580	121,630	.....	1,340	6,350	75,057	4,319	341,121	261,745	201	.....	.....	35	.....	.....	166	.....	7
19,801	12,087	126,539	.....	3,000	8,180	77,745	70,112	428,289	280,442	652	640	.....	.....	.....	.....	12	.....	8
		111,087	.....	1,075	7,009	314,310	.....	557,676	243,366	460	460	.....	.....	.....	.....	.....	.....	9
		5,918	.....	1,358	128	6,256	.....	25,910	19,654	.....	.....	.....	.....	.....	.....	.....	.....	10
11,915	6,511	40,778	.....	5,268	1,468	36,546	2,567	124,448	85,335	58	.....	.....	.....	.....	.....	58	.....	11
88,135	72,933	144,796	9,726	5,299	26,435	350,143	10,437	980,834	620,254	110	.....	.....	.....	.....	.....	110	.....	12
745,132	742,569	8,838,890	2,942	58,241	3,006,644	11,562,826	4,671	28,472,994	16,905,497	142	.....	.....	.....	.....	.....	142	.....	13
427,532	132,778	4,984,485	133	69,743	122,423	3,539,400	287,664	10,277,005	6,449,932	5,661	1,677	40	25	.....	.....	3,919	291	

Furniture, wood, including rattan and willow.....	2	Liquors, malt.....	1	Mineral and carbonated waters.....	3	Shipbuilding, wooden, including boat building.....	4
Gas, illuminating and heating.....	1	Marble and stone work, monuments and tombstones.....	1	Paints.....	2		
Hand stamps.....	1	Mattresses and, spring beds, not elsewhere specified.....	2	Paving materials.....	4		
Iron and steel, welding.....	1			Photo-engraving.....	1		
				Shipbuilding, steel, new vessels.....	1		

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

298,557	100,904	2,094,461	816	18,430	638,315	2,661,148	115,035	6,520,351	3,744,168	1,211	662	.....	200	.....	349	146	1
87,971	89,886	745,252	4,506	33,705	43,624	1,054,634	168,547	2,722,612	1,499,431	1,860	1,035	65	167	.....	563	35	2
460,914	409,527	5,789,135	20,239	26,493	80,160	10,001,206	233,856	18,006,919	7,771,857	5,243	3,666	95	264	16	1,202	1,197	3
38,694	9,940	211,835	.....	9,681	10,685	435,051	79,735	1,004,938	490,152	762	150	50	147	.....	415	13	4

<sup>3</sup> Same number reported for one or more other months.

<sup>4</sup> Same number reported throughout the year.

